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SERVICE 10000 G. MANUAL TO U.S.



Stereo Console Amplifier



MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT 20525 Nordhoff Street Chatsworth, California 91311 Phone: 1-800-423-5108

1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

- 1. Complete address.
- 2. Complete part numbers.
- 3. Complete description of parts.
- 4. Model number for which part is required (indicate MARANTZ).
- 5. Account number (for account customers only).

Direct consumers will be provided with the current retail prive quotation on available parts in order to advise them of the cost of the parts and shipping.

OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

CANADA	AUSTRALIA	JAPAN
Superscope Canada, Ltd. 3710 Nashua Drive Mississauga Ontario, Canada L4V1M5	Superscope (Australasia) Pty., Ltd. 32 Cross Street (P.O. Box 604) Brookvale 2100 N.S.W. Australia	Marantz Japan, Inc. 3622 Kamitsuruma Sagamihara Shi Kanagawa, Japan

EUROPE

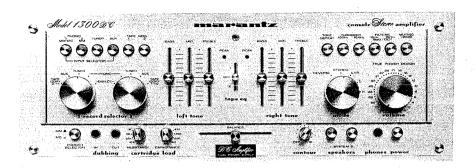
Superscope Europe, S.A.	Marantz France	Marantz Audio U.K. Ltd.	Superscope GmbH
Avenue Leopold III, 2	Rue Louis Armand 9	London Road, 203	Max-Planck-Strasse 22
7120 Peronnes-Lez-Binche	92600 Asnieres	Staines	D-6072 Dreieich 1
Belgium	Hauts-de-Seine	Middlesex	West Germany
	France	England	•

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.



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1. POWER AMPLIFIER ADJUSTMENT

1.1 Adjustment of idling current

Connect VTVM between left channel R760 and R761. Adjust R733 until the meter reads 20mV. Similarly, connect VTVM between right channel R760 and R761 and adjust R733 until the meter reads 10mV.

1.2 DC-OFFSET adjustment

Connect VTVM to JW02 and JW08 (or ground) and adjust left channel R720 until the meter indication reaches 0mV (±5mV). Similarly, connect VTVM to JW04 and JW08 (or ground) and adjust right channel R720 until the meter indication reaches 0mV (±5mV).

2. POWER SUPPLY ADJUSTMENT

Connect a voltmeter between J810 and J820. Adjust R810 until meter indicates 31 VDC. Similarly connect a voltmeter between J812. Check to make sure that the meter indicates - 31 V.

3. TEST EQUIPMENT REQUIRED FOR SERVICING

Table 1 lists the test equipment required for servicing the Model 1180DC Stereo Console Amplifier. The wattmeter, AC voltmeter, and variable autotransformer may be assembled as a test fixture as shown schematically in Figure 1. The load resistors and AC ammeter may be assembled into a second test fixture as shown in Figure 2.

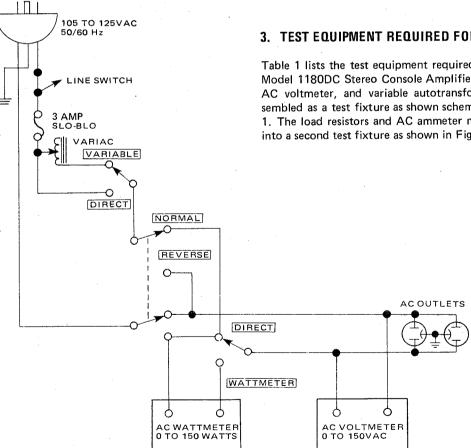


Figure 1. AC Power Control Box Simpligied Schematic

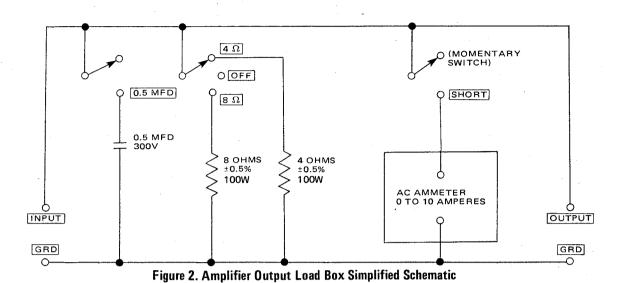


Table 1. Test Equipment Required for Servicing

		Table 1. Test Equipment Required for Service
Item	Manufacurer and Model No. (or equivalent)	Use
Distortion Analyzer and Audio Oscillator	Spund Technology, Model 1700B (NOTE: Less then 0.002 percent residual distortion is required.)	Measures distortion, voltage of ampli- fier output and sinewave source
Oscilloscope	Tektronix, Model 503 Data, Model 555	Waveform analysis and troubleshooting.
VTVM	RCA Senior Volt-Ohmyst, Model WV-98C	Voltage and resistance measurements.
AC Wattmeter	Simpson, Model 390	Monitors primary power consumption of amplifier.
AC Ammeter (0 to 10 amps)	Commercial Grade	Monitors amplifier output under short circuit condition.
Line Voltmeter (0 to 150V AC)	Commercial Grade	Monitors potential of primary power to amplifier.
Variable Autotransformer (0 to 140V AC, 10 amps)	Powerstat, Model 116B	Adjusts level of primary power to amplifier.
Shorting Plug	Use phono plug with 600 ohms across center pin and shell.	Shorts amplifier input to eliminate noise pickup.
Power Supply Bleeder Resistor (10 ohms at 1 W)	Commercial Grade	Discharges power supply filter capacitors prior to disassembly or resistance measurements.
Output Load Resistor (8 Ω ±0.5%, 250W)	Commercial Grade	Provides 8-ohm load for amplifier output termination.
Output Load Resistor (4 Ω ±0.5%, 250W)	Commercial Grade	Provides 4-ohm load for amplifier output termination.
Output Load Capacitor (0.5 mfd)	Mylar	Provides capacitive load for instability checks.
AC Power Control Box	Optional Item. Fabricate in accordance with Figure 1.	Monitors and controls primary power for amplifier.
Amplifier Output Load Box	Optional Itam Fabricate in accordance with Figure 2.	Provides various amplifier loads and can monitor shorted output.

4. VOLTAGE CONVERSION

EUROPEAN MODEL ONLY

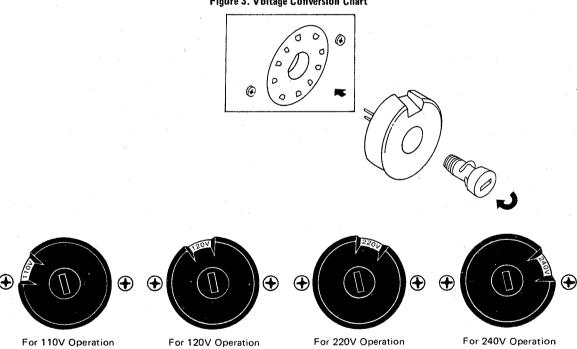
This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240 V AC 50/60 Hz.

To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

CAUTION

DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BERORE CONVERTING VOLTAGE.

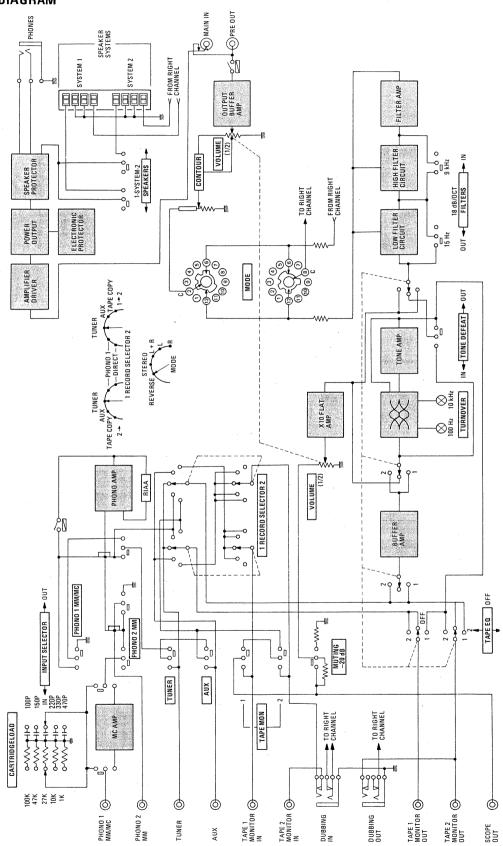
Figure 3. Voltage Conversion Chart



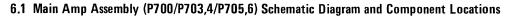
Removal Procedure of P.W. Boards

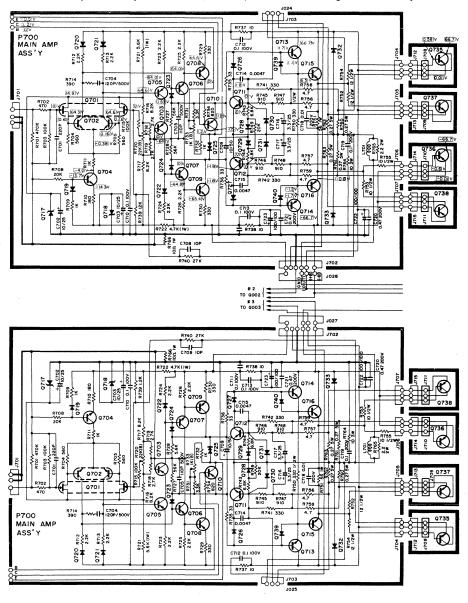
- Remove the screw 1 (002C) and screw 2 (003C). Remove the Upper cover
- 2. Remove the screw 3 (011C). Remove the bottom cover.
- 3 Remove the screw 4 (101F). Remove the front cover (100F).
- 4. Remove the controls 1 (016B),
- 2 (017B), 3 (019B), 4 (020B), 5 (022B) and 6 (023B), and remove the screw 5 (021B), nut 1 (020F) and bolt 1 (025B). Remove the escutcheon.
- Remove the screws 6 (003F), 7 (005F) and 8 (034F). Then the board will be drawn out toward you.

5. BLOCK DIAGRAM

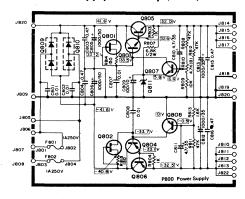


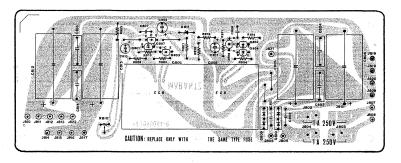
6. DIAGRAM AND COMPONENT LOCATIONS

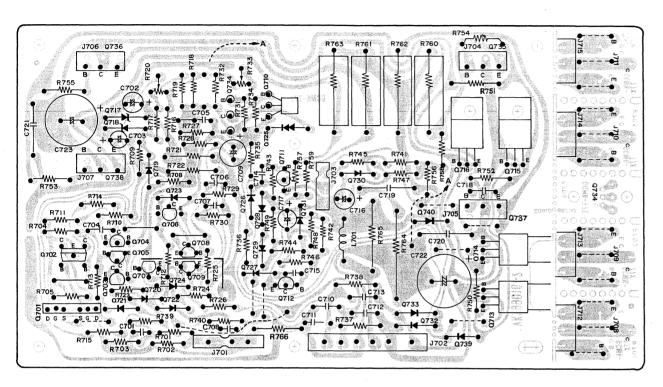




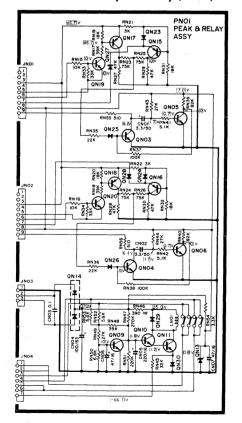
6.2 Power Supply Assembly (P800) Schematic Diagram and Component Locations

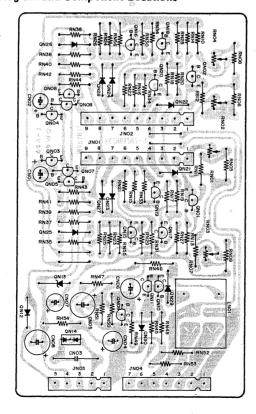




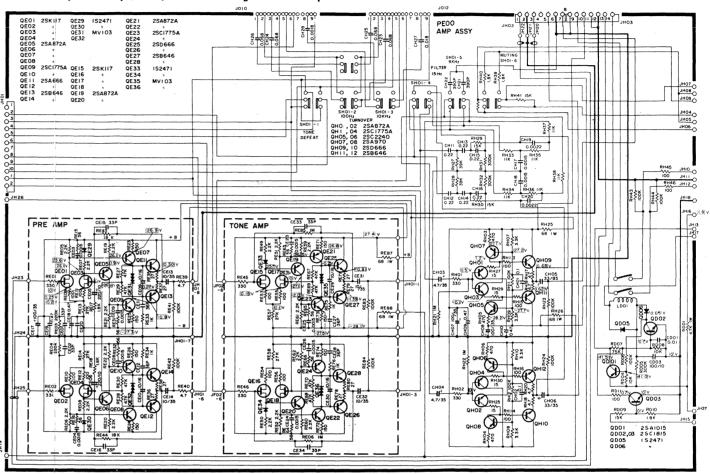


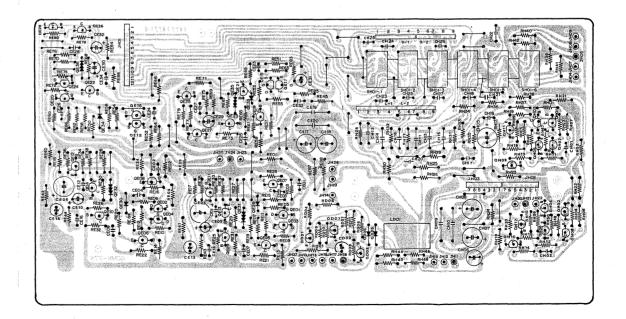
6.3 Peak and Relay Assembly (PN01) Schematic Diagram and Component Locations



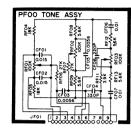


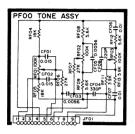
6.4 Pre Amp Assembly (PE00) Schematic Diagram and Component Locations

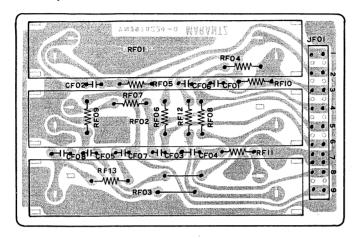




6.5 Tone VR Assembly (PF00) Schematic Diagram and Component Locations

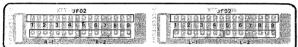




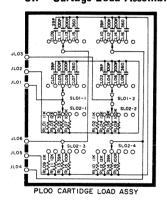


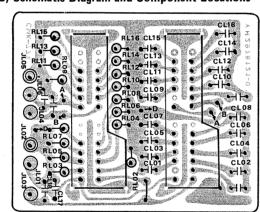
6.6 Tone VR Selector Assembly (PF01) Schematic Diagram and Component Locations



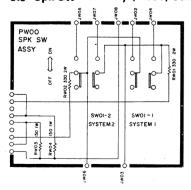


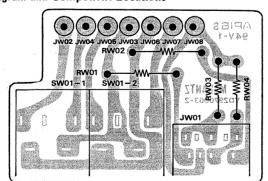
6.7 Cartdge Load Assembly (PLOO) Schematic Diagram and Component Locations



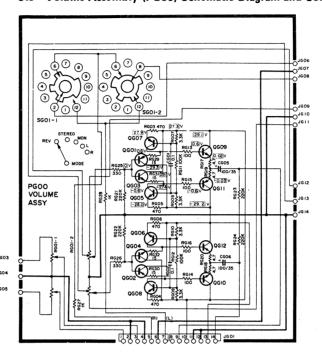


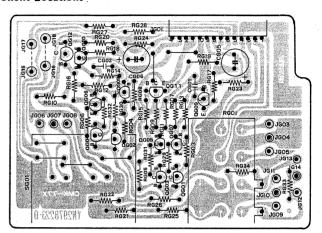
6.8 Spk SW Assembly (PW00) Schematic Diagram and Component Locations



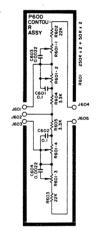


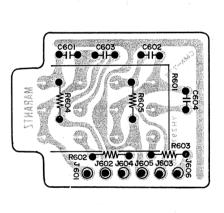
6.9 Volume Assembly (PG00) Schematic Diagram and Component Locations



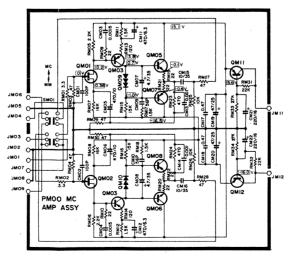


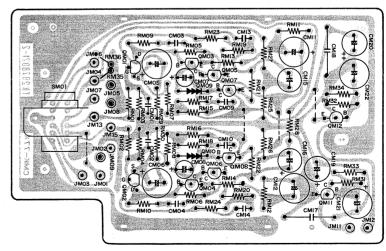
6.10 Contour Assembly (P600) Schematic Diagram and Component Locations



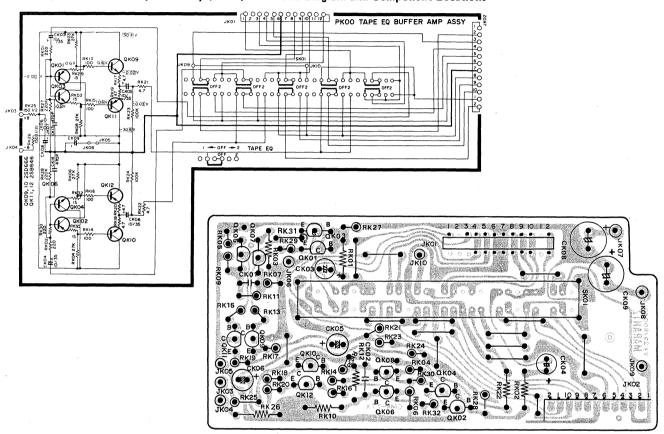


6.11 Mc Amp Assembly (PM00) Schematic Diagram and Component Locations

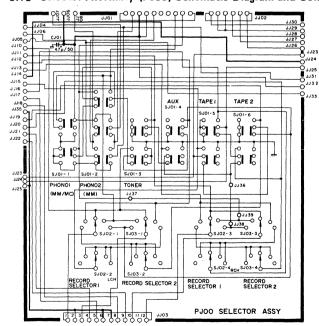


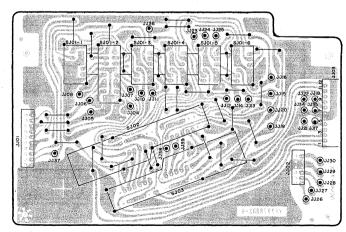


6.12 Tape EQ Buffer Amp Assembly (PKOO) Schematic Diagram and Component Locations

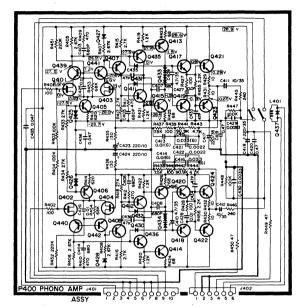


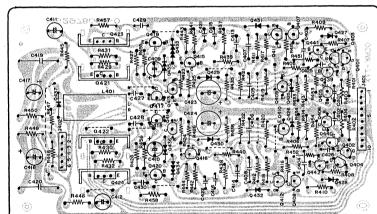
6.13 Selector Assembly (PJ00) Schematic Diagram and Component Locations



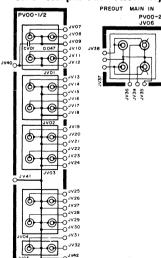


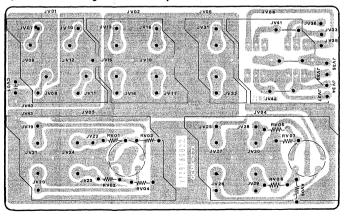
6.14 Phono Amp Assembly (P400) Schematic Diagram and Component Locations





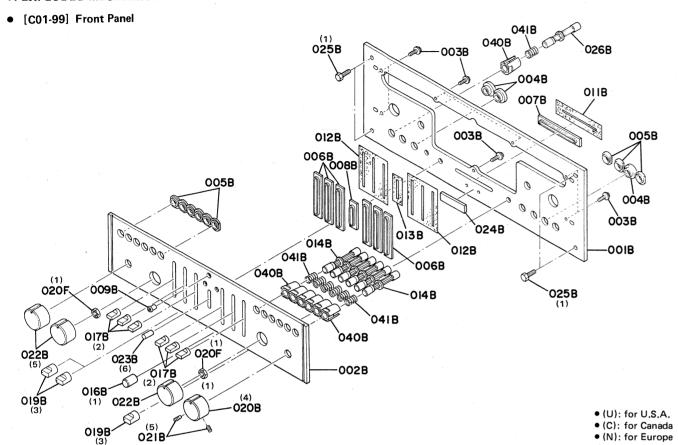
6.15 Rcapin Tack Assembly (PV00) Schematic Diagram and Component Locations





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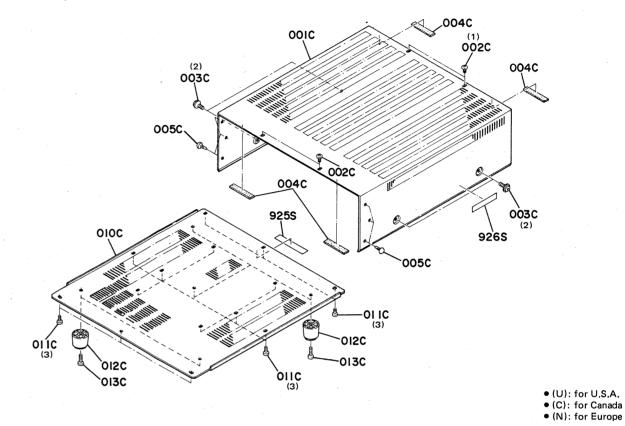
7. EXPLODED MECHANICAL DIAGRAM



(3) 0210										
REF.		YT'	Υ	PART NO.	DESCRIPTION					
DESIG.	U	С	N	TAITI NO.	DESCRIPTION					
А	1	1	1	2990063400	Front Panel Assembly					
001B	1	1	1	2990063400	Escutcheon, Main					
001B	1	1	1	2990063030	Escutcheon, Sub					
002B	7	7	7	51480306A9	F. Washer Screw					
003B	3	3	3	2978259020	Bushing, Jack					
005B	9	9	9	2978259012	Bushing, Push Switch					
006B	6	6	6	2970259010	Bushing, Slide VR					
007B	1	1	1	2926259040	Bushing, Balance VR					
008B	1	1	1	2978259042	Bushing, Tape EQ					
009B	1	1	1	2979259022	Bushing, LED					
011B	1	1	1	2926303020	Mask					
012B	2	2	2	2926303010	Mask					
013B	1	1	1	2978303010	Mask					
014B	6	6	6	2978154043	Knob					
024B	1	1	1	2979251020	Badge					
026B	1	1	1	2978154070	Knob					
040B	7	7	7	2979259013	Bushing					
041B	7	7	7	2979115012	Spring					
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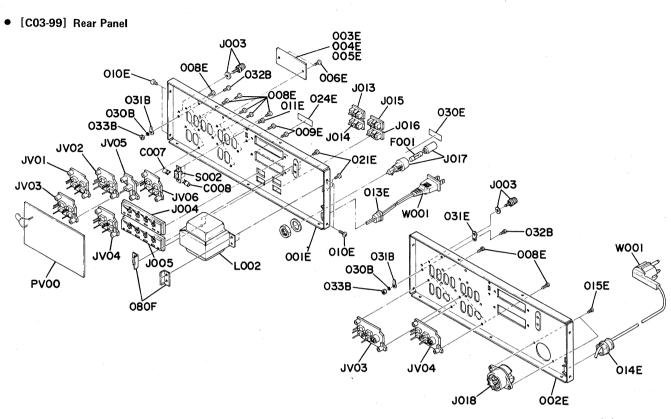
	REF.	C	2'T	Υ	PART NO.	DESCRIPTION			
	DESIG.	U	С	N	PART NO.	DESCRIPTION	J14		
						-			
	016B	1	1.	1	2970154010	Knob			
	017B	6	6			Knob			
	019B	3	3	- 1	2978154030	Knob			
	020B	1	1			Knob	4		
	021B	2	2	2	51690306Ω9	Socket Screw, HP	3 x 6		
	022B	3	3			Knob			
	023B	1	1	1	2978154020	Knob			
	025B	4	4	4	52017069J0	H. Head Bolt			
-	020F	2	2	2	53118179A0	Hexagon Nut			
4									
	-								
					-				
				-					
					-				
	l								

• [C02-99] Lid (Top cover)



REF.	QTY		Y	PART NO.	DESCRIPTIO	N
DESIG.	U	С	N		DESCRIPTIO	14
001C	1	1	1	2990257010	Lid, Top Cover	
002C	4	4	4	51280306U0	B.H. Tapped Screw	B3 x 6
003C	4			51480406S9	F. Washer Screw	F4 x 6
004C	4			2965118010	Spacer	
005C	6	6	6	2991259010	Bushing	
010C	1	1	1	2990257020	Lid, Bottom Cover	
011C	14		14	51280408U0	B.H. Tapped Screw	B4 x 8
012C	5	5	- 1	2759057010	Leg	
013C	5	5	5	51570410S0	P. Tapped Screw	P4 x 10
				-		
-				-		
					7	
					-	
-						
	-					

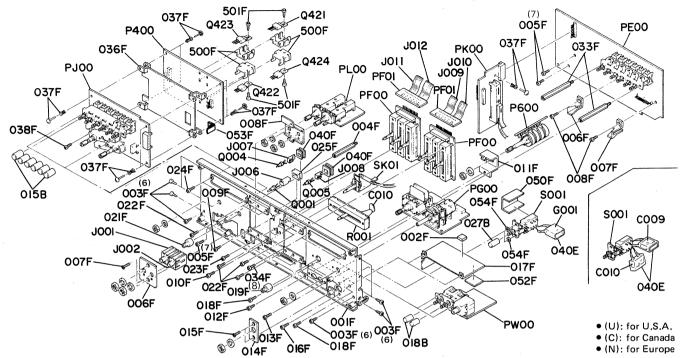
REF.	0	ľΤ	Υ	PART NO.		DESCRIPTION
DESIG.	U	С	N	FARTINO.		DESCRIPTION
925S 925S 926S 926S 926S	1	1	1	2578861010 2911861110 2911861140 2932861010	Label Label Label Label	
		-				
-		-				
				:		



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REF.	Q'TY		_	PART NO.	DESCE	RIPTION	
DESIG.	υ	С	N	FARTINO.	DESCR	IIF I ION	•
				,			
001E	1	1		2990160210	Bracket, Rear		
002E			1	2990160220	Bracket, Rear	Panel	
003E	1			2990265010	Indicator		
004E		1		2990265020	Indicator		
005E	Ì		1	2990265030	Indicator		
006E	2	2	2	51760306B0	OS Tapped Sc		3 x 6
008E	12	. –		51280308U0	B.H. Tapped S	crew	B3 x 8
009E	4	4	4	51280308U0	B.H. Tapped S		B3 x 8
010E	4	4	4	51280308U0	B.H. Tapped S	crew	B3 x 8
011E	2	2	2	51100306S9	B.H.M. Screw		B3 x 6
013E	1	1		1455259070	Bushing		
014E			1	2286259110	Bushing		
015E			2	5110030889	B.H.M. Screw		B3 x 8
021E	4	4	4	51100408S9	B.H.M. Screw		B4 x 8
024E		1		2214861010	Label		
030E		1		2911861250	Label		
031E			1	2211123110	Contactor		,
030B	1	1	1	54040302N0	Spring Washer		
031B	1	1	1	62030049W0	Lug		
032B	1	1	1	51100308B9	B.H.M. Screw		B3 x 8
033B	1	1	1	53110303E9	Hexagon Nut		
		_		0000404070			
080F	2	2	2	2990104070	Retainer		
C007	,	1	1	EQ10601610	Floor Com	0.01	. 461/
C007	1	1	1	EQ10601610	Elect Cap.	0.01µF	
F001	1	1	'	FS10800040	Elect Cap. Fuse.	0.01μF 4AT	16V 250V
F001	'	'	1	FS10800040 FS10400800	Fuse, Fuse,	4A I	2500
1 001			'	1 3 10400000	i use,	UA	

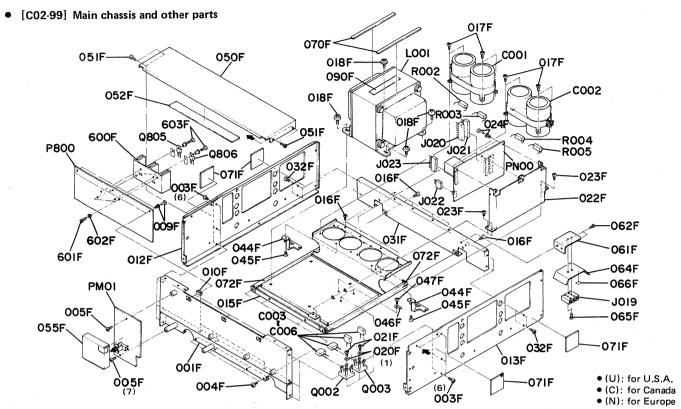
REF.	С	Q'TY		2427.110	D. FOOD ID THE WAY
DESIG.	υ	С	N	PART NO.	DESCRIPTION
J003	1	1	1	YL03010240	Terminal, Ground
J004	1	1	1	YT03040160	Terminal, Speaker
J005	1	1	1	YT03040160	Terminal, Speaker
J013	1	1		YJ04000560	Jack, A.C. Outlet
J014	1	1		YJ04000560	Jack, A.C. Outlet
J015	1	1		YJ04000560	Jack, A.C. Outlet
J016	1	1		YJ04000560	Jack, A.C. Outlet
J017	1	1		YJ08000230	Jack, Fuse Holder
J017	1 1		1	YJ08000220	Jack, Fuse Holder
J018			1	BY03110010	Plug, Voltage Selector
L002	1	1		TS16616010	Power Transformer
L002	١. ا		1	TS16616020	Power Transformer
S002	1	1	1	SS02020380	Slide Switch
W001	1	1		YC02000160	A.C. Power Cord
W001		-	1	YC01900030	A.C. Power Cord
PV00	1	1	1	YF29780020	P.W. Board, RCA Pin Jack
1	1	1		ZZ29901020	P.W. Board Assembly
	Ì		1	ZZ29908020	P.W. Board Assembly
					•
JV01	1	1	1	YT02040270	Terminal
JV02	1	1	1	YT02040150	Terminal
JV03	1	1		YT02040150	Terminal
JV03			1	BY01050060	Jack
JV04	1	1	- 1	YT02040150	Terminal
JV04			1	BY01050060	Jack
JV05	1	1	1	YT02020150	Terminal
JV06	1	1		YT02040210	Terminal
JV06			1	YT02040150	Terminal

• [P01-99] Front Chassis and General Parts



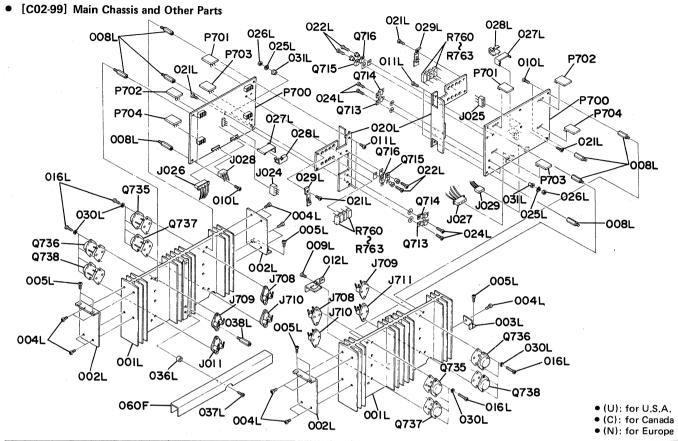
REF.	QTY		Y	PART NO.	DESCRIPTIO	N	
DESIG.	U	С	N	PANTINO.			_
001F	1	1	1	2978160020	Bracket, Front		
002F	1	1	1	3358118080	Spacer		
003F	8	8	8	51280308B0	B.H. Tapped Screw	B3x 8	
004F	1	1	1	2978101050	Support .		
005F	1	1	1	51100306A9	B.H.M. Screw	B3 x 6	
006F	1	1	1	2978120050	Insulator		
007F	2	2	2	51040306S9	F.H.M. Screw	F3 x 6	
008F	1	1	1	2978160080	Bracket		
009F	1	1	1	51280308B0	B.H. Tapped Screw		
010F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
					_ `		
011F	1	1	1	2978160070	Bracket	50 0	
012F	1	1	1	51280308B0	B.H. Tapped Screw	B3 x 8	
013F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
014F	1	1	1	2970120020	Insulator	F3 x 6	
015F	2	2	2	51040306S9	F.H.M. Screw B.H.M. Screw	гз x б ВЗ x 6	
016F 017F	1	1	1	51100306A9 2978109030	Shield	БЭХО	
017F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
019F	1	1	1	2978101020	Support	D3 x 0	
0131 021F	1	1	1	2970101010	Support		
0211	'	Ι'	'	2570101010	очроп		
022F	12	12	12	51100306A9	B.H.M. Screw	B3 x 6	
023F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
024F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
025F	1	1	1	2978259060	Bushing		
033F	2	2	2	2978101050	Support		
034F	2	2	2	51100306A9	B.H.M. Screw	B3 x 6	
036F	1	1	1	2978109050	Shield		
037F	8	8	8	2276005050	Clamper		
038F	1	1	1	51280306B0	B.H. Tapped Screw	B3 x 6	
040F	2	2	2	2978259060	Bushing		
	1.		١.				
050F	1	1	1	3951120010	Insulator		
052F	1	1	1	2978120070	Insulator		
053F	1	1	1	2978120080	Insulator		
054F	2	2	2	2232118300	Spacer		

REF.	QTY		Y	PART NO.	DESCRIPTION
DESIG.	υ	С	N	TARTINO.	DESCRIPTION
		٠.			
500F	4	4	4	2963267020	Heatsink
501F	4	4	4	51280306B0	B.H. Tapped Screw B3 x 6
015B	6	6	6	2970154030	Knob
018B	2	2	2	2970154030	Knob
027B	1	1	1	2221154120	Knob, Power Switch
0405	1	1		2210120010	: In out at ou
040E	1	1	_	2219120010	Insulator Insulator
040E	-		2	3926120010	Insulator
005F	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
006F	1	1	1	2978051010	Guide
007F	1	1	1	2978051110	Guide
008F	1	1	1	51280310B0	B.H. Tapped Screw B3 x 10
0000				DE1700000	Film Cap. 0.022µF ±20% 1000V
C009			1	DF17223800	Film Cap. 0.022µF ±20% 1000V Film Cap. 0.022µF ±20% 1000V
C010		1	1	DF17223800 DK18473310	Ceramic Cap. 0.047µF +80 -20%
C010	1	'	١'	BF10400030	Ceramic Cap. 0.047μ F +80 -20%
G001 G001	'	1		BF10400030	Cap. Comp. $0.1\mu\text{F} + 120\Omega$
J001	1	1	1	YJ01001010	Jack, Dubbing In
J001	1	1	1	YJ01001010	Jack, Dubbing III
J002	1	1	1	YJ05000250	Jack, Dubbing Out
J007	li.	1	1	YJ05000230	Jack, L.E.D.
J008	li	li	li	YJ05000270	Jack, L.E.D.
J009	1	i	i	YU08150210	Jumper Lead (8P)
J010	1	1	1	YU08150210	Jumper Lead (8P)
J011	1	1	1	YU08250210	Jumper Lead (8P)
J012	1	1	1	YU08250210	Jumper Lead (8P)
Q001	1	1	1	HI10004030	L.E.D.
0004	1	1	1	H110004030	L.E.D.
0005	1	1	li	HI10004030	L.E.D.
R001	1	1	1	RS01040110	Variable Resistor,
"""	1	١.	Ι΄		100KΩ (BH) x 2
S001	1	1	1	SP04010230	Push Switch, Power
S001		1	1	SP04010250	Push Switch, Power
1	1	1	1		



REF.	Q'TY		Y	PART NO.	DESCRIPTIO	NI.
DESIG.	U	С	N	PARTINO.	DESCRIPTIO	IV
001F	1	1	1	2990160110	Bracket, Front Chass	sis
003F	6	6	6	51280408U0	B.H. Tapped Screw	B4 x 8
004F	4	4	4	51280408B0	B.H. Tapped Screw	B4 x 8
005F	2	2	2	51280306B0	B.H. Tapped Screw	
009F	3	3	3	2965005010	Clamper	
010F	3	3	3	2218271020	Holder	
012F	1	1	1	2990160030	Bracket, (L)	
013F	1	1	1	2990160130	Bracket, (R)	
015F	1	1	1	2979105010	Chassis, Main	
016F	6	6	6	51280408B0	B.H. Tapped Screw	B4 x 8
017F	8	8	8	51280308B0	B.H. Tapped Screw	B3 x 8
018F	4	4	4	51490612A9	L. Washer Screw	L6 x 12
020F	2	2	2	54020301A0	Flat Washer, P	
021F	2	2	2	51280316B0	B.H. Tapped Screw	B3 x 16
022F	1	1	1	2979160010	Bracket	
023F	4	4	4	51280306B0	B.H. Tapped Screw	B3 x 6
024F	3	3	3	2965005010	Clamper	
031F	1	1	1	2990160020	Bracket	
032F	4	4	4	51280408U0	B.H. Tapped Screw	B4 x 8
044F	2	2	2	2979160040	Bracket	
045F	2	2	2	51280308B0	B.H. Tapped Screw	B3 x 8
046F	1	1	1	62030049W0	Lug	
047F	1	1	1	51280306B0	B.H. Tapped Screw	B3 x 6
050F	1	1	1	2990053010	Cover	
051F	4	4	4	51280306U0	B.H. Tapped Screw	B3 x 6
052F	1	1	1	2978120010	Insulator	
055F	1	1	1	2978053050	Cover	
061F	l		1	2990271010	Holder	
062F			2	51280308B0	B.H. Tapped Screw	B3 x 8
064F	1		1	3953120030	Insulator	
065F	1		2	51280314B0	B.H. Tapped Screw	B3 x 14
066F		<u> </u>	1	2882861020	Label	

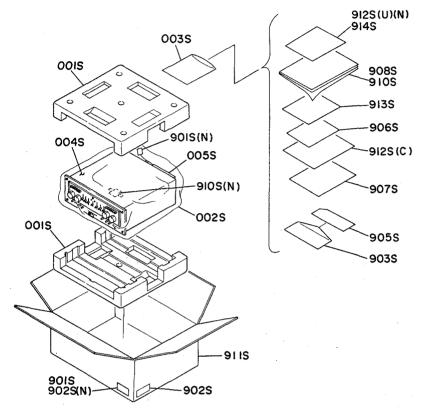
REF.	C	YT'	Y	PART NO.	DESCRIPTION
DESIG.	U	C	2	TANT NO.	DESCRIPTION
070F	2	2	2	2979056010	Buffer
071F	4	4	4	2979056020	Buffer
072F	2	2	2	2979259050	Bushing
090F	1	1	1	2213861010	Label
600F	1	1	1	2990267020	Heatsink
601F	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
602F	2	2	2	54050300R0	T.L. Washer OR
603F	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
C001	1	1	1	E110908040	Elect Cap. 10000µF
C002	1	1	1	E110908040	Elect Cap. 10000µF
C003	1	1	1	DK18103510	Ceramic Cap. 0.01µF 500V
C004	1	1	1	DK18103510	Ceramic Cap. 0.01µF 500V
C005	1	1	1	DK18103510	Ceramic Cap. 0.01µF 500V
C006	1	1	1	DK18103510	Ceramic Cap. 0.01µF 500V
J019			1	YL09030010	Terminal, (3P)
J020	1	1	1	YJ06001070	Jack, (9P)
J020	1	1	1	YJ06001070	Jack, (9P)
J021	1	1	1	YJ06001070	Jack, (3P)
J023	1	1	1	YJ06001040	Jack, (7P)
0020	ļ .	•	•		(11)
L001	1	1		TS63303040	Power Transformer
L001			1	TS63303050	Power Transformer
Q002	1	1	1	HD20004290	Diode S5VB-20
Ø003	1	1	1	HD20004290	Diode S5VB-20
R002	1	1	1	GS10222030	Resistor 2.2K Ω ±10% 3W
R003	1	1	1	GS10222030	Resistor 2.2K Ω ±10% 3W
R004	1	1	1	GS10222030	Resistor $2.2K\Omega$ $\pm 10\%$ 3W
R005	1	1	1	GS10222030	Resistor 2.2KΩ ±10% 3W
Q805	1	1	1	HT403132P0	Transistor 2SD313 (D or E)
Q806	1	1	1	HT205072P0	Transistor 2SB507 (D or E)



REF.	C	ľΤ	Y	PART NO.	DESCRIPTIO	NI
DESIG.	U	С	N	PART NO.	DESCRIPTIO	
001L	2	2	2	2463267010	Heatsink	
002L	3	3	3	2979160020	Bracket	
003L	1	1	1	2978104030	Retainer	
004L	13	13	13	51280308B0	B.H. Tapped Screw	B3 x 8
005L	7	7	7	51280306B0	B.H. Tapped Screw	B3 x 6
008L	8	8	8	2463101010	Support	
009 ∟	1	1	1	51100306A9	B.H.M. Screw	B3 x 6
010L	6	6	6	51100306A9	B.H.M. Screw	B3 x 6
011L	4	4	4	51100308A9	B.H.M. Screw	B3 x 8
012L	1	1	1	2990104060	Retainer	
016L	1	16	16		B.H.M. Screw	B3 x 16
020 L	2	2	2	2990267030	Heatsink	
021L	4	4	4	51280306B0	B.H. Tapped Screw	B3 x 6
022L	4	4	4	51100308E9	B.H.M. Screw	B3 x 8
024L	4	4	4	51100312E9	B.H.M. Screw	B3 x 12
025L	4	4	4	54050300R0	T.L. Washer OR	
026L	4	4	4	53110303E9	Hexagon Nut	
027L	2	2	2	2990267080	Heatsink	
028L	2	2	2	2990115020	Spring	
029 L	2	2	2	2990115010	Spring	
030L	16	16	16	54040302N0	Spring Washer	
031L	4	4	4	2219259030	Bushing	
037L	1	1	1	51100310A9	B.H.M. Screw	B3 x 10
037 L	1	1	1	2891101030	Support	20 X 10
036L	1	1	1	3683055010	Collar	
0002	'-	١'	'	0000000000	Condi	
060F	1	1	1	2990109010	Shield	

REF.	C	l'Τ'	Y	DARTNO	DESCRIPTION
DESIG.	υ	С	N	PART NO.	DESCRIPTION
J024	1	1	1	YJ06001040	Jack. (3P)
J025	1	i	1	YJ06001040	Jack, (3P)
J026	1	1	1	YJ06002050	Jack, (4P)
J027	1	1	1	YJ06002060	Jack, (4P)
J028	1	1	1	YJ06001040	Jack, (3P)
J029	1	1	1	YJ06001040	Jack, (3P)
					· ,
P700	2	2	2	YK29901610	P.W. Board, Main
	.5	2	2	ZZ29901610	P.W. Board Assembly
R760	2	2	2	GW10272050	Resistor 0.27Ω ±10% 5W
R761	2	2	2	GW10272050	Resistor 0.27Ω ±10% 5W
R762	2	2	2	GW10272050	Resistor 0.27Ω ±10% 5W
R763	2	2	2	GW10272050	Resistor 0.27Ω ±10% 5W
	ļ				
Q713	2	2	2	HT407571C0	Transistor 2SD757 (C)
Q714	2	2	2	HT407571C0	Transistor 2SD757 (C)
Q715	2	2	2	HT322381C0	Transistor 2SC2238B (O or Y)
Q716	2	2	2	HT322381C0	Transistor 2SC2238B (O or Y)
Q735	2	2	2	HT406652A0	Transistor 2SD665 (R or O)
Q736	1	1	1	HT206452A0	Transistor 2SB645 (R or O) Transistor 2SD665 (R or O)
Q737	2	2	2	HT406652A0 HT206452A0	Transistor 2SD665 (R or O) Transistor 2SB645 (R or O)
Q738	2	2	2	H1206452A0	Transistor 25B645 (R of O)
J708	2	2	2	YJ05000260	Jack
J708	2	2	2	YJ05000260	Jack
J710	2	2	2	YJ05000260	Jack
J711	2	2	2	YJ05000260	Jack
	-	_	_		
				-	

• [H01-99] Packing Materials



REF.	Q'TY		Y	PART NO.	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
001S	2	2	2	2990809010	Cushion
002S	1	1		9091111040	Polyethy Sheet
002S	1	1	1	9014538450	Polyethy Bag
003S	1	1	1	9013025010	Polyethy Bag
004S	1	1	1	2918107210	Sheet
005S	1	1	1	2864804010	Sleeve
901S	3		·	9526019010	Serial No. Card
901S		3		9526019020	Serial No. Card
901S		Ť	1	9560000040	Hang Tag
902S	l	2		9510901020	Label
902S	1		3	9526019060	Serial No. Card
9038	l		1	2818813010	Envelope
903S		1		2918813010	Envelope
905S		1	1	9630000180	Guarantee Card
906S	1	1		9650000050	S, Station Card
907S	1.			2818854020	Guarantee Card
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REF.		YT'	Y	PART NO.	DESCRIPTION		
DESIG.	υ	С	N	PARTINO.	DESCRIPTION		
907S		1		2818854040	Guarantee Card		
9088			1	2990851310	Instructions		
910S] .		1	2731821010	Silicagel		
9105	1		'	2990851010	Instructions		
9108		1		2990851310	Instructions		
911S	1	•	1	2990801010	Packing Case		
9118		1		2990801150	Packing Case		
9125		1		2886851100	Instructions		
9128	1			2990851020	Instructions		
9128			1	2990851030	Instructions		
					_ :		
913S	1	١.		2225813010	Envelope		
9148		1		2990851050	Instructions		
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8. ELECTRICAL PARTS LIST

١	REF.		1'T		PART NO.	DESCRIPTION
	DESIG.	U	С	N		
	P400	1	1	1	YG29780020 ZZ29781010	P400-PHONE AMP. CIRCUIT BOARD P.W. Board, Phono Amp. P.W. Board Assembly
	C403 C404 C405 C406 C407 C408 C409 C410 C411 C412	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	DF55681090 DF55681090 DF55681090 DF55681090 DF55681090 EA47503590 EA47503590 EQ10603510 EQ10603510	$\begin{array}{llllllllllllllllllllllllllllllllllll$
	C413 C414 C415 C416 C417 C418 C419 C420 C421 C422	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	DF74103010 DF74103010 DF74333010 DF74333010 EA22703590 EA22703590 DF17474510 DF17474510 DF15222300 DF15222300	$\begin{array}{llllllllllllllllllllllllllllllllllll$
	C423 C424 C425 C426 C427 C428 C431 C432 C433 C434 C435 C436 C437 C438	1 1 1 1 1 1 1 1 1 1 1 1 1	11111111111111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EA22701090 EA22701090 DF15103300 DF15103300 DF15103300 DF15472300 DF15472300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DD15470300 DK18473310	Elect $220\mu F$ $10V$ Elect $220\mu F$ $10V$ Film $0.01\mu F$ $\pm 5\%$ Film $0.0047\mu F$ $\pm 5\%$ Film $0.0047\mu F$ $\pm 5\%$ Ceramic $47pF$ $\pm 5\%$ Ceramic $0.047\mu F$ $0.00000000000000000000000000000000000$
	R401 R402 R403 R404 R405 R406 R407 R408 R409 R410	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	GD05101140 GD05101140 GD05104140 GD05104140 GM21426710 GM21426710 GM21426710 GM21426710 GD05471140	P400-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 100Ω 100Ω 100ΚΩ 100ΚΩ 2.67ΚΩ $\pm 2\%$ 2.67ΚΩ $\pm 2\%$ 2.67ΚΩ $\pm 2\%$ 2.67ΚΩ $\pm 2\%$ 470Ω $\pm 2\%$ 470Ω 470Ω
	R411 R412 R413 R414 R415 R416 R417 R418 R419	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	GD05471140 GD05471140 GD05621140 GD05621140 GD05272140 GD05272140 GD05272140 GD05122140 GD05122140	470Ω 470Ω 620Ω 620Ω 2.7ΚΩ 2.7ΚΩ 2.7ΚΩ 1.2ΚΩ 1.2ΚΩ

REF.	C	ľΤ`		PART NO.	DESC	CRIPTION
DESIG.	U	С	N	1,7,111		
DA21	1	1	1	GD05122140	1.2 ΚΩ	
R421 R422	1	1	1	GD05122140 GD05122140	1.2KΩ	
R423	i	1	1	GG05680140	68Ω	
R424	1	1	i	GG05680140	68Ω	
R425	1	1	1	GG05680140	68Ω	
R426	1	1	1	GG05680140	Ω 89	
R427	1	1	1	GD05101140	100Ω	
R428	1	1	1	GD05101140	100Ω	
R429	1	1	1	GG05120140	12Ω	14.
R430	1	1	1	GG05120140	12Ω	
R431	1	1	1	GG05120140	12Ω	
R432	1	1	1	GG05120140	12Ω	
R433	1	1	1	GD05393140	39KΩ	
R434	1	1	1	GD05393140	39KΩ	
R435	1	1	1	GM21413000	130Ω	±2%
R436	1	1	1	GM21413000	130Ω	±2%
R437	1	1	1	GM21475010	7.5KΩ	±2%
R438	1	1	1	GM21475010	7.5ΚΩ	±2%
R439	1	1	1	GD05101140	100Ω	
R440	1	1	1	GD05101140	100Ω	
R441	1	1	1	GM21490920	90.9ΚΩ	±2%
R442	1	1	1	GM21490920	90.9ΚΩ	±2%
R443	1	1	1	GD05472140	4.7KΩ	
R444	1	1	1	GD05472140	4.7 K Ω	
R445	1	1	1	GD05101140	100Ω	
R446	1	1	1	GD05101140	100Ω	
R447	1	1	1	GD05104140	100KΩ	
R448	1	1	1	GD05104140	100ΚΩ	
R449	1	1	1	GG05470140	47Ω	
R450	1	1	1	GG05470140	47Ω	
R451	1	1	1	GD05224140	220KΩ	
R452	1	1	1	GD05224140	220KΩ	•
R453	1	1	1	GD05683140	68KΩ	
R454	1	1	1	GD05683140	68KΩ	,
R455	1	1	1	GD05222140	2.2ΚΩ	
R456	1	1	1	GD05222140	2.2ΚΩ	
			1		P400-SEM10	CONDUCTORS
Q401	1	1	1	HF201361Q0	F.E.T.	2SK136 (Q)
Q402	1	1	1	HF201361Q0	F.E.T.	2SK136 (Q)
Q403	1	1	1	HF201361Q0	F.E.T.	28K136 (Q)
Q404	1	1	1	HF201361Q0	F.E.T.	2SK136 (Q)
Q405	1	1	1	HT322401B0	Transistor	2SC2240 (BL)
Q406	1	1	1	HT322401B0	Transistor	2SC2240 (BL)
Q407 Q408	1	1	1	HT109701B0 HT109701B0	Transistor Transistor	2SA970 (BL) 2SA970 (BL)
Q408	i	1	1	HT109701B0	Transistor	2SA970 (BL)
Q410	1	1	i	HT109701B0	Transistor	2SA970 (BL)
	ľ		<u> </u>			
Q411	1	1	1	HT322401A0	Transistor	2SC2240 (GR)
Q412	1	1	1	HT322401A0	Transistor	2SC2240 (GR)
Q413	1	1	1	HT108722D0	Transistor	2SA872A (D or E)
Q414	1	1	1	HT108722D0	Transistor	2SA872A (D or E)
Q415 Q416	1	1	1	HT317752D0 HT317752D0	Transistor Transistor	2SC1775A (D or E) 2SC1775A (D or E)
Q416	1	1	1	HT317752D0	Transistor	2SC1775A (D or E)
Q418	1	1	1	HT317752D0	Transistor	2SC1775A (D or E)
Q419	1	1	1	HT108722D0	Transistor	2SA872A (D or E)
Q420	1	1	1	HT108722D0	Transistor	2SA872A (D or E)
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REF.	(ΩΉΥ		PART NO.	DESCRIPTION		
DESIG.	U	С	N	PART NO.	DESCRIPTION		
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0421	1	1	1	HT407571C0	Transistor 2SD757 (C)		
Q422	1	1	1	HT407571C0	Transistor 2SD757 (C)		
Q423	1	1	1	HT207171C0	Transistor 2SB717 (C)		
Q424	1	1	1	HT207171C0	Transistor 2SB717 (C)		
Q425	1	1	1	HV00002060	Varistor VD1212		
Q426	1	1	1	HV00002060	Varistor VD1212		
Q427	1	1	1	HD20003210	Diode 1S2471		
Q428	1	1	1	HD20003210	Diode 1S2471		
Q429	1	1	1	HD20003210	Diode 1S2471		
0430	1	1	1	HD20003210	Diode 1S2471		
4400	1'	١.	١.	11020000210	510dc 102471		
Q431	1	1	1	HD20003210	Diode 1S2471		
Q431	1	1	1	HD20003210	Diode 132471		
		1 .	1		- · · · · · · · · · · · · · · · · · · ·		
Q433	1	1	1	HV00006120	Varistor MV203 (Y)		
Q434	1	1	1	HV00006120	Varistor MV203 (Y)		
Q435	1	1	1	HV00004060	Varistor VD1210		
Q436	1	1	1	HV00004060	Varistor VD1210		
Q437	1	1	1	HD20003210	Diode 1S2471		
Q439	1	1	1	HT322401B0	Transistor 2SC2240 (BL)		
Q440	1	1	1	HT322401B0	Transistor 2SC2240 (BL)		
Q441	1	1	1	HT322401B0	Transistor 2SC2240 (BL)		
Q442	1	1	1	HT322401B0	Transistor 2SC2240 (BL)		
_ · · -	1		ľ				
					P400-MISCELLANEOUS		
J401	1	1	1	YP06001650	Plug (10P)		
J402	li	1	1	YP06001650	Plug (6P)		
J402	'	'	Ι'	1 1 0000 1050	riug (Or)		
1.404	1	1	1	1 220040400	D-II		
L401	1,	'	'	LY20240120	Rellay		
	1				5000 t 0115 t 500 00 t 501 501 50		
					P600-LOUDNESS CONTOUR		
					CIRCUIT BOARD		
P600	1	1	1	YH29781220	P.W. Board, Loudness Contour		
	1	1	1	ZZ29781220	P.W. Board Assembly		
			1				
					P600-CAPACITORS		
C601	1	1	1	DF15104300	Film 0.1µF ±5%		
C602	1	1	1	DF15104300	Film 0.1µF ±5%		
C603	1	1	1	DF15222300	Film 0.0022µF ±5%		
C604	li	li	1	DF15222300	Film 0.0022µF ±5%		
0004	1.	Ι'	١.	D1 13222300	1 11111 0.0022μ1 ±5%		
					P600-RESISTORS		
D601	1	1	1	D COENSONO			
R601	1	1 .		RG050300800	Variable, $250K\Omega \times 2$, $50K\Omega \times 2$		
R602	1.	1	1	GD05153140	15KΩ ±5% ¼W		
R603	1	1	1	GD05153140	15KΩ ±5% ¼W		
R604	1	1	1	GD05332140	3.3KΩ ±5% ¼W		
R605	1	1	1	GD05332140	3.3KΩ ±5% ¼W		
				,			
					P700-MAIN AMP.		
	1				CIRCUIT BOARD		
P700	2	2	2	YK29901610	P.W. Board, Main Amp.		
	2	2	2	ZZ29901610	P.W. Board Assembly		
					P700-CAPACITORS		
C701	2	2	2	DD15221370	Ceramic 220pF ±5%		
C702	2	2	2	EA10602590	Elect 10µF 25V		
C703		2	2	EA10602590	Elect 10µF 25V		
C704	2	2	2	DD15121370	Ceramic 120pF ±5%		
	2				•		
C705	2	2	2	DK16101500	Ceramic 100pF ±10% 500V		
C708	2	2	2	DD15100500	Ceramic 10pF ±5% 500V		
C709	2	2	2	EA10605090	Elect 10μF 50V		
C710	2	2	2	DF17104540	Film 0.1µF ±20% 100V		
C711	2	2	2	DF17104540	Film $0.1\mu F \pm 20\% 100V$		
C712	2	2	2	DF17104540	Film 0.1µF ±20% 100V		
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DESIG.	U	С	N		
C713 C714 C715 C716 C717 C718 C719 C720 C721 C722 C723	2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2	DF17104540 DF16472350 DF16472350 EA33502590 EA33502590 DF17103510 DF17104510 DF17474510 DF17474510 EA10710010	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
R701 R702 R703 R704 R705 R708 R709 R710 R711	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	GD05474140 GD05471140 GD05104140 GD05561140 GD05561140 GD05203140 GD05102140 GD05181140 GD05102140 GD05102140	P700-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 470K Ω 470 Ω 100K Ω 560 Ω 560 Ω 20K Ω 1K Ω 180 Ω 1K Ω 2.2K Ω
R713 R714 R715 R716 R717 R718 R719 R720 R721 R722	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	GD05222140 GD05391140 GD05104140 GD05822140 GD05822140 GD05272140 GD05272140 RA02230050 GA05562010 GA05472010	$2.2 \text{K}\Omega$ 390Ω $100 \text{K}\Omega$ $8.2 \text{K}\Omega$ $8.2 \text{K}\Omega$ $2.7 \text{K}\Omega$ $2.7 \text{K}\Omega$ $7.1 \text{K}\Omega$ $1.1 \text{K}\Omega$ $1.2 \text{K}\Omega$ $1.3 \text{K}\Omega$ $1.4 \text{K}\Omega$ $1.4 \text{K}\Omega$ $1.4 \text{K}\Omega$
R723 R724 R725 R726 R727 R728 R729 R730 R731 R732	2 2 2 2 2 2 2 2 2	222222222	222222222	GD05222140 GD05222140 GD05222140 GD05222140 GD05563140 GD05563140 GG05331140 GG05331140 GD05332140 GD05681140	2.2KΩ 2.2KΩ 2.2KΩ 2.2KΩ 56KΩ 56KΩ 330Ω 330Ω 3.3KΩ 680Ω
R733 R734 R735 R736 R737 R738 R739 R740 R741 R742	2 2 2 2 2 2 2 2 2 2	222222222	2 2 2 2 2 2 2 2 2 2	RA01020270 GD05821140 GG05330140 GG05330140 GG05100140 GG05100140 GD05122140 GD05273140 GD05331140 GD05331140	Trimming 1KΩ (B) 820Ω 33Ω 33Ω 10Ω 10Ω 1.2KΩ 27KΩ 330Ω 330Ω
R743 R744 R745 R746 R747	2 2 2 2 2	2 2 2 2 2	2 2 2 2 2	GD05682140 GD05682140 GD05911140 GD05911140 GD05911140	6.8KΩ 6.8KΩ 910Ω 910Ω 910Ω

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REF. DESIG.	U	_	N	PART NO.	DESC	RIPTION
R748 R749 R750 R751 R752 R753 R754 R755 R756	2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	GD05911140 GD05203140 GG05331120 GA05560010 GG05100120 GG05100120 GG05100120 GG05100120 GG05047140 GG05047140	910Ω 20ΚΩ 330Ω 56Ω 10Ω 10Ω 10Ω 4.7Ω 4.7Ω	½W 1W ½W ½W ½W ½W
R758 R759 R760 R761 R762 R763 R764 R765	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	GG05047140 GG05047140 GW10272050 GW10272050 GW10272050 GW10272050 GA05100030 GA05022020 GA05100010	4.7Ω 4.7Ω 0.27Ω 0.27Ω 0.27Ω 0.27Ω 10Ω 2.2Ω 10Ω	±10% 5W ±10% 5W ±10% 5W ±10% 5W 3W 2W 1W
Q701 Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710	2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2	222222222	HC10003200 HT322592F0 HT109701A0 HT322401J0 HT109701J0 HT322401J0 HT322401J0 HT109491B0 HT322291B0 HT109701B0	P700-SEMIC IC Transistor	20NDUCTORS 25K 109 (C or D) 25C 2259 (F or G) 25A970 (GR) 25C 2240 (GR) 25A970 (GR) 25A970 (GR) 25C 2240 (GR) 25A949 (Y) 25C 2229 (Y) 25A970 (BL)
Q711 Q712 Q713 Q714 Q715 Q716 Q717 Q718 Q719 Q720	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	HT318152A0 HT110152A0 HT407571C0 HT207171C0 HT322381C0 HT109681C0 HD30025090 HD30025090 HD20003210 HD20003210	Transistor Transistor Transistor Transistor Transistor Zener Zener Diode Diode	2SC1815 (O or Y) 2SA1015 (O or Y) 2SD757 (C) 2SB717 (C) 2SC2238B (O or Y) 2SA968B (O or Y) WZ150 WZ150 1S2471 1S2471
Q721 Q722 Q723 Q724 Q725 Q726 Q727 Q728 Q729 Q730	2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	HD20003210 HD20003210 HD20010210 HD20010210 HV00002120 HD20001210 HD20001210 HD20003210 HD20003210 HD20003210	Diode Diode Diode Varistor Diode Diode Diode Diode Diode Diode Diode Diode Diode	1\$2471 1\$2471 1\$2471G 1\$2471G \$V-3A 1\$2473 1\$2473 1\$2471 1\$2471
Q731 Q732 Q733 Q734 Q735 Q736 Q737 Q738 Q739 Q740	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2	HD20003210 HD20011010 HD20011010 HT315681S0 HT406652A0 HT206452A0 HT206452A0 HT206452A0 HD20001210	Diode Diode Diode Transistor Transistor Transistor Transistor Transistor Diode Diode	1S2471 W06C W06C 2SC1568 (S) 2SD665 (R or O) 2SB645 (R or O) 2SD665 (R or O) 2SB645 (R or O) 1S2473 1S2473

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REF. DESIG.	U		N	PART NO.	DESCRIPTION
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1704				VP00004040	P700-MISCELLANEOUS
J701	2	2	2	YP06001040	Plug, (3P)
J702	2	2	2	YP06000520 YP06001040	Plug, (4P) Plug, (3P)
J703 J704	2	2	2	YJ06001040	Jack, (3P)
J704	2	2	2	YJ06001960	Jack, (3P)
J706	2	2	2	YJ06001960	Jack, (3P)
J707	2	2	2	YJ06001960	Jack, (3P)
J708	2	2	2	YJ05000260	Jack, TR. Socket
J709	2	2	2	YJ05000260	Jack, TR. Socket
J710.	2	2	2	YJ05000260	Jack, TR. Socket
J711	2	2	2	YJ05000260	Jack, TR. Socket
	İ				
L701	2	2	2	LL23915120	Choke Coil 0.8μΗ
					4
0704	2	1	2	YK29901620	P.W. Board, Power Tr. Socket
P701	2	2	2	ZZ29901620	P.W. Board Assembly
	2	2	2	2229901620	F.W. Board Assembly
J712	2	2	2	YP06001640	Plug, (3P)
3712	٦	-	_	1100001010	1109, (817
	ĺ				
P702	2	2	2	YK29901630	P.W. Board, Power Tr. Socket
	2	2	2	ZZ29901630	P.W. Board Assembly
J713	2	2	2	YP06001640	Plug, (3P)
		_	_	V// 00004040	DW B . I B T Cli-t
P703	2	2	2	YK29901640	P.W. Board, Power Tr. Socket
	2	2	2	ZZ29901640	P.W. Board Assembly
J714	2	2	2	YP06001640	Plug, (3P)
3/14	_	_	_	1100001040	11.09, (51.7
		1			
P704	2	2	2	YK29901650	P.W. Board, Power Tr. Socket
	2	2	2	ZZ29901650	P.W. Board Assembly
	İ		ļ		
J715	2	2	2	YP06001640	Plug, (3P)
					P800-POWER SUPPLY
	١.	١.		V=0000000	CIRCUIT BOARD
P800	1	1	1	YF29900040	P.W. Board, Power Supply
	1	1	1	ZZ29900040	P.W. Board Assembly
			1	ZZ29908040	P.W. Board Assembly
					P800-CAPACITORS
C801	1	1	1	DK18103510	Ceramic 0.01µF 500V
C802	1	i	1	DK18103510	Ceramic 0.01µF 500V
	1	l'i	1	DF17474510	Film 0.47µF ±20% 250V
C803	1	1	1	F	
C804	1	1	1	DF17474510	
C805	1	1	1	EB10805060	Elect 1000μF 50V
C806	1	1	1	EB10805060	Elect 1000μF 50V
C807	1	1	1	DF15103350	Film 0.01μF ±5%
C808	1	1	1 1	DF15103350 EA10701090	Film $0.01\mu\text{F} \pm 5\%$ Elect $100\mu\text{F}$ 10V
C809	1	1	1	EA47503590	Elect 4.7μ F 35V
C810	'	Ι'	'	LA4/303380	4./μπ 350
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C811	1	1	1	EA47503590	Elect 4.7μF 35V
C812	1	1	1	EA10803590	Elect 1000µF 35V
C813	1	1	1	EA10803590	Elect 1000µF 35V
C814	1	1	li	DF17474510	Film 0.47μF ±20% 250V
C815	1	1	1	DF17474510	Film 0.47µF ±20% 250V
1 0013	'	•	١,	D1 17474010	1 mm 0,47 mm 220 0 230 V
			l		P800-RESISTORS
				,	(All Resistors are ±5% and ¼W)
R803	1	1	1	GD05102140	1ΚΩ
R804	1	1	1	GD05102140	1ΚΩ
R807	1	1	1	GG05682120	6.8KΩ ½W
R808	1	1	1	GD05473140	47ΚΩ
R809	1	1	1	GD05103140	10ΚΩ
R810	1	1		RA04720050	Trimming 4,7KΩ (B)
R811	1	1	1	GD05473140	47ΚΩ
R812	1	1	ĺ	GD05473140	47ΚΩ
R813	i	1	1	GD05162140	1.6ΚΩ
R814	i	1	1	GG05151140	150Ω
R815	1	1	li	GG05151140	150Ω
1 11015	١.	'	'	0000101140	10002
]		P800-SEMICONDUCTORS
Q801	1	1	1	HF200301C0	F.E.T. 2SK30A (Y)
0802	i	1	1	HF200301C0	F.E.T. 2SK30A (Y)
0803	1	1	1	HT315091Q0	Transistor 2SC1509 (Q)
Q804	1	li	1	HT107771Q0	Transistor 2SA777 (Q)
Q805	1	1	li	HT403132P0	Transistor 2SD313 (D or E)
0806	1	1	1	HT205072P0	Transistor 2SB507 (D or E)
Q807	i	1	1	HT322402A0	Transistor 2SC2240 (GR or BL)
0808	i	li	;	HT109702A0	Transistor 2SA970 (GR or BL)
0809	1	i	1	HE10001030	Diode DS133B
Q810	1	1	1	HE10001030	Diode DS133B
Q811	1	1	1	HD30008010	Zener HZ-6L (B)
2311	Ι'	١.	Ι'	11200000010	201101
ł		ŀ		,	P800-MISCELLANEOUS
F801	1	1		FS10100080	Fuse 1A
F801		Ĭ.,	1	FS10100800	Fuse 1AT
F802	1	1		FS10100080	Fuse 1A
F802	·		1	FS10100800	Fuse 1AT
ł	l		ĺ		
J801		ĺ			*
1 ?	4	4	1	YJ08000170	Jack, Fuse Holder
J804					·
J801					
1 ?			4	YJ08000270	Jack, Fuse Holder
J804	-				[
		}		•	
					PE00-PRE AMP.
1					CIRCUIT BOARD
PE00	1	1	1	YN29782210	P.W. Board, Pre Amp.
1	1	1	1	ZZ29781040	P.W. Board Assembly
1					
1					PE00-CAPACITORS
CD01	1	1	1	DF16103300	Film 0.01μF ±10%
CD03	1	1	1	EA10701090	Elect 100µF 10V
	١.				
CE01	1	1	1	DD15330370	Ceramic 33pF ±5%
CE02	1	1	1	DD15330370	Ceramic 33pF ±5%
CE03	1	1	1	DF15152350	Film 0.0015μF ±5%
CE04	1	1	1	DF15152350	Film 0.0015μF ±5%
CE05	1	1	1	EA22701090	Elect 220μF 10V
CE06	1	1	1	EA22701090	Elect 220µF 10V
CE07	1	1	1	DF15152350	Film 0.0015μF ±5%
CE08	1	1	1	DF15152350	Film 0.0015μF ±5%
CE09	1	1	1	EA10601690	Elect 10μF 16V
CE10	1	1	1	EA10601690	Elect 10μF 16V
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CE11 CE12 CE13 CE14 CE15 CE16 CE17 CE18 CE19 CE20	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	DD15360300 DD15360300 EQ10603510 EQ10603510 DD15330300 DD15330300 EA10703590 EA10703590 DF17474510	Ceramic 36pF \pm 5% Ceramic 36pF \pm 5% Elect 10 μ F 35V Elect 10 μ F 35V Ceramic 33pF \pm 5% Ceramic 33pF \pm 5% Elect 100 μ F 35V Elect 100 μ F 35V Film 0.47 μ F \pm 20% Film 0.47 μ F \pm 20%
CE23 CE24 CE25 CE26 CE27 CE28 CE29 CE30 CE31 CE32 CE33 CE34	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	DF15152350 DF15152350 DF15152350 DF15152350 DD15360300 DD15360300 EA10601690 EA10601690 EQ10603510 EQ10603510 DD15330300 DD15330300	Film $0.0015\mu F$ $\pm 5\%$ Film $0.0015\mu F$ $\pm 5\%$ Film $0.0015\mu F$ $\pm 5\%$ Film $0.0015\mu F$ $\pm 5\%$ Ceramic $36pF$ $\pm 5\%$ Ceramic $36pF$ $\pm 5\%$ Elect $10\mu F$ $16V$ Elect $10\mu F$ $16V$ Elect $10\mu F$ $35V$ Ceramic $33pF$ $\pm 5\%$ Ceramic $33pF$ $\pm 5\%$
CH01 CH02 CH03 CH04 CH05 CH06 CH07 CH08 CH09 CH10	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	DF16104300 DF16104300 EA47503590 EA47503590 EA33603590 EA33603590 EA10703590 EA10703590 DF17474510	$ \begin{array}{llllllllllllllllllllllllllllllllllll$
CH11 CH12 CH13 CH14 CH15 CH16 CH17 CH18 CH19 CH20	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	DF15224300 DF15224300 DF15224300 DF15224300 DF15224300 DF15224300 DF15152350 DF15152350 DF151522350 DF15222350	Film 0.22µF ±5% Film 0.22µF ±5% Film 0.22µF ±5% Film 0.22µF ±5% Film 0.22µF ±5% Film 0.22µF ±5% Film 0.015µF ±5% Film 0.0015µF ±5% Film 0.0022µF ±5% Film 0.0022µF ±5%
CH21 CH22 CH23 CH24 CH25 CH26 CH27 CH28	1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	DF55391090 DF55391090 DF15683300 DF15683300 DF15683300 DF15683300 DF15182350 DF15182350	Film 390pF ±5% Film 390pF ±5% Film 0.068μF ±5% Film 0.068μF ±5% Film 0.068μF ±5% Film 0.068μF ±5% Film 0.0018μF ±5% Film 0.0018μF ±5%

REF.	C	QTY		PART NO.	DESCRIPTION		
DESIG.	υ	С	N	PARTNO.	DESCRIPTION		
RD01 RD04 RD05	1 1 1	1 1 1	1 1	GA05472010 GD05103140 GD05304140	. PE00-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 4.7K Ω 1W 10K Ω 300K Ω		
RD06 RD07 RD08 RD09 RD10 RD11	1 1 1 1	1 1 1 1	1 1 1 1 1	GD05104140 GD05753140 GD05103140 GD05153140 GD05182140 GD05101140	100ΚΩ 75ΚΩ 10ΚΩ 15ΚΩ 1.8ΚΩ 100Ω		
RE01 RE02 RE03 RE04 RE05 RE06 RE07 RE08 RE09	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	GD05331140 GD05331140 GD05224140 GD05222140 GD05222140 GD05222140 GD05222140 GD05222140 GD05101140 GD05101140	330Ω 330Ω 220ΚΩ 220ΚΩ 2.2ΚΩ 2.2ΚΩ 2.2ΚΩ 100Ω 100Ω		
RE11 RE12 RE13 RE14 RE15 RE16 RE17 RE18 RE19 RE20	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	GD05101140 GD05101140 GD05153140 GD05153140 GD05560140 GD05560140 GD05182140 GD05182140 GD05222140 GD05222140	100Ω 100Ω 15ΚΩ 15ΚΩ 56Ω 1.8ΚΩ 1.8ΚΩ 2.2ΚΩ 2.2ΚΩ		
RE21 RE22 RE23 RE24 RE25 RE26 RE27 RE28 RE29 RE30	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	GD05222140 GD05222140 GD05151140 GD05151140 GD05151140 GD05151140 GD05473140 GD05473140 GD05473140 GD05473140	2.2KΩ 2.2KΩ 150Ω 150Ω 150Ω 150Ω 47KΩ 47KΩ 47KΩ 47KΩ		
RE31 RE32 RE33 RE34 RE35 RE36 RE37 RE38 RE39 RE40	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	GD05560140 GD05560140 GD05102140 GD05102140 GG05270140 GG05270140 GG05270140 GD05047140 GD05047140	56Ω 56Ω 1ΚΩ 1ΚΩ 27Ω 27Ω 27Ω 27Ω 4,7Ω 4,7Ω		
RE41 RE42 RE43 RE44 RE45 RE46 RE49 RE50 RE51 RE52	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	GD05104140 GD05104140 GD05183140 GD05183140 GD05331140 GD05222140 GD05222140 GD05222140 GD05222140	100ΚΩ 100ΚΩ 18ΚΩ 18ΚΩ 330Ω 330Ω 2.2ΚΩ 2.2ΚΩ 2.2ΚΩ		

REF.)'T	Y	DARTNO	DE00	RIPTION
DESIG.	υ	С	N	PART NO.	DESC	RIPTION
RE53	1	1	1	GD05101140	100Ω	
RE54	1	1	1	GD05101140	100Ω	
RE55	1	1	1	GD05101140	100Ω	
RE56	1	1	1	GD05101140	100Ω	
RE57	1	1	1	GD05153140	15ΚΩ	
RE58 RE59	1	1	1	GD05153140 GD05222140	15KΩ 2.2KΩ	
RE60	1	1	1	GD05222140 GD05222140	2.2ΚΩ	
RE61	1	1	1	GD05222140	2.2ΚΩ	
RE62	1	1	1	GD05222140	2.2ΚΩ	
RE63	1	1	1	GD05560140	56Ω	
RE64	1	1	1	GD05560140	56Ω	
RE65	1	1	1	GD05560140	56Ω	
RE66	1	1	1	GD05560140	56Ω	
RE67	1	1	1	GD05473140	47ΚΩ	
RE68	1	1	1	GD05473140	47ΚΩ	
RE69	1	1	1	GD05473140 GD05473140	47KΩ 47KΩ	
RE70 RE71		1	i	GD05473140	150Ω	
RE72	i	i	1	GD05151140	150Ω	•
			١.			
RE73	1	1	1	GD05151140	150Ω	
RE74 RE75	1	1	1	GD05151140 GD05102140	150Ω 1KΩ	
RE76	i	i	i	GD05102140	1ΚΩ	
RE77	1	1	1	GG05270140	27Ω	
RE78	1	1	1	GG05270140	27Ω	
RE79	1	1	1	GG05270140	27Ω	
RE70	1	1	1	GG05270140	27Ω	*
RE83 RE84	1	1	1	GD05104140 GD05104140	100KΩ 100KΩ	
TTEO+			'	0000104140	1001(32	
RE85	1	1	1	GD05105140	1MΩ	
RE86	1	1	1	GD05105140	1ΜΩ	4141
RE87 RE88	1	1	1	GA05680010 GA05680010	Ω86 Ω86	1W 1W
11200	1	'	١.	07.0000000	0012	.**
RH01	1	1	1	GD05331140	330Ω	
RH02	1	1	1	GD05331140	330Ω	
RH03 RH04	1	1	1	GD05471140 GD05471140	470Ω 470Ω	
RH05	1		1	GD05471140	470Ω 470Ω	
RH06	1	<u>;</u>	1	GD05471140	470Ω	
RH07	1	1	1	GD05332140	3.3KΩ	
RH08	1	1	1	GD05332140	3.3KΩ	
RH09	1	1	1	GD05332140	3.3KΩ	
RH10	1	1	1	GD05332140	3,3KΩ	-
RH11	1	1	1	GD05104140	100ΚΩ	
RH12	1	1	1	GD05104140	100ΚΩ	
RH13	1	1	1	GD05101140	100Ω	,
RH14	1	1	1	GD05101140	100Ω	
RH15	1	1	1	GD05101140	100Ω	
RH16 RH17	1	1	1 1	GD05101140 GG05047140	100Ω 4.7Ω	
RH18	1	1	1	GG05047140	4.7Ω	
RH19	1	1	1	GG05047140	4.7Ω	
RH20	1	1	1	GG05047140	4.7Ω	
	<u> </u>		1			

REF.	С	T	Y	PART NO.	DESC	CRIPTION		REF.	0
DESIG.	U	С	N	PART NO.	DESC	ZAIFTION		DESIG.	U
RH21 RH22 RH23 RH24 RH25 RH26 RH27 RH28 RH29 RH30	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1111111111	GD05105140 GD05105140 GD05104140 GD05104140 GA05680010 GA05680010 GD05393140 GD05393140 GD05153140 GD05153140	1MΩ 1MΩ 100KΩ 100KΩ 68Ω 68Ω 39KΩ 39KΩ 15KΩ	1W 1W		QE21 QE22 QE23 QE24 QE25 QE26 QE27 QE28 QE29 QE30	1 1 1 1 1 1 1 1 1
RH31 RH32 RH33 RH34 RH35 RH36 RH37 RH38 RH39 RH40	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	GD05304140 GD05304140 GD05113140 GD05113140 GD05113140 GD05113140 GD05113140 GD05113140 GD05182140 GD05182140	300KΩ 300KΩ 11KΩ 11KΩ 11KΩ 11KΩ 11KΩ 11KΩ 11KΩ			QE31 QE32 QE33 QE34 QE35 QE36 QH01 QH02 QH03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
RH41 RH42 RH43 RH44 RH45 RH46 RH47 RH48 RH49 RH50	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	GD05153140 GD05153140 GD05224140 GD05224140 GD05101140 GD05150140 GD05150140 GD05150140 GD05150140 GD05150140	15ΚΩ 15ΚΩ 220ΚΩ 220ΚΩ 100Ω 100Ω 15Ω 15Ω 15Ω			QH04 QH05 QH06 QH07 QH08 QH09 QH10 QH11 QH12	1 1 1 1 1 1 1 1
					PEOO-SEMIO	CONDUCTORS		LD01	1
QD01 QD02 QD03 QD05 QD06	1 1 1 1	1 1 1 1 1	1 1 1 1 1	HT110152A0 HT318152A0 HT318152A0 HD20003210 HD20003210	Transistor Transistor Transistor Diode Diode	2SA1015 (O or Y) 2SC1815 (O or Y) 2SC1815 (O or Y) 2SC1815 (O or Y) 1S2471 1S2471		JH01 JH02 JH03 SH01	1 1 1 1
QE01 QE02 QE03 QE04 QE05 QE06 QE07 QE08 QE09 QE10	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	HF201172B0 HF201172B0 HF201172B0 HF201172B0 HT108722D0 HT108722D0 HT108722D0 HT108722D0 HT317752D0 HT317752D0	F.E.T. F.E.T. F.E.T. Transistor Transistor Transistor Transistor Transistor Transistor	2SK117 (Y or GR) 2SK117 (Y or GR) 2SK117 (Y or GR) 2SK117 (Y or GR) 2SA872A (D or E) 2SA872A (D or E) 2SA872A (D or E) 2SA872A (D or E) 2SC1775A (D or E) 2SC1775A (D or E)		PF00 CF01 CF02 CF03	2 2 2 2 2
QE11 QE12 QE13 QE14 QE15 QE16 QE17 QE18 QE19 QE20	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	HT406661C0 HT406661C0 HT206461C0 HT206461C0 HF201172B0 HF201172B0 HF201172B0 HF201172B0 HT108722D0 HT108722D0	Transistor Transistor Transistor F.E.T. F.E.T. F.E.T. Transistor Transistor Transistor	2SA666 (C) 2SA666 (C) 2SB646 (C) 2SB646 (C) 2SK117 (Y or GR) 2SK117 (Y or GR) 2SK117 (Y or GR) 2SK117 (Y or GR) 2SK372A (D or E) 2SA872A (D or E)		CF04 CF05 CF06 CF07 CF08	2 2 2 2
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					• (N): for Europe
REF. DESIG.		C	N	PART NO.	DESCRIPTION
QE21 QE22 QE23 QE24 QE25 QE26 QE27 QE28 QE29 QE30	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	HT108722D0 HT108722D0 HT317752D0 HT317752D0 HT406661C0 HT406661C0 HT206461C0 HT206461C0 HD20003210 HD20003210	Transistor 2SA872A (D or E) Transistor 2SA872A (D or E) Transistor 2SC1775A (D or E) Transistor 2SD666 (C) Transistor 2SD666 (C) Transistor 2SB646 (C) Transistor 2SB646 (C) Diode 1S2471 Diode 1S2471
QE31 QE32 QE33 QE34 QE35 QE36	1 1 1 1 1	1 1 1 1 1	1 1 1 1	HV00006120 HV00006120 HD20003210 HD20003210 HV00006120 HV00006120	Varistor MV203 (Y) Varistor MV203 (Y) Diode 1S2471 Diode 1S2471 Varistor MV203 (Y) Varistor MV203 (Y)
QH01 QH02 QH03 QH04 QH05 QH06 QH07 QH08 QH09 QH10 QH11 QH11	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HT108722D0 HT108722D0 HT317752D0 HT317752D0 HT322401A0 HT322401A0 HT109701A0 HT109701A0 HT406661C0 HT406661C0 HT206461C0 HT206461C0	Transistor 2SA872 (D or E) Transistor 2SA872 (D or E) Transistor 2SC1775 (D or E) Transistor 2SC2775 (D or E) Transistor 2SC2240 (GR) Transistor 2SA970 (GR) Transistor 2SA970 (GR) Transistor 2SD666 (C) Transistor 2SD666 (C) Transistor 2SB646 (C) Transistor 2SB646 (C)
LD01	1	1	1	LY20240120	PE00-MISCELLANEOUS Relay
JH01 JH02 JH03	1 1 1	1 1 1	1 1 1	YP06001160 YP06001140 YP06001140	Plug, (12P) Plug, (7P) Plug, (7P)
SH01	1	1	1	SP04060090	Push Switch
PF00	2	2 2	2	YN29782240 ZZ29782240	PF00-TONE VR. CIRCUIT BOARD P.W. Board, Tone VR. P.W. Board Assembly
CF01 CF02 CF03 CF04 CF05 CF06 CF07 CF08	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2	DF15153300 DF15153300 DF15562300 DD15331370 DF15562300 DF15103300 DF15103300 DF15103300 DD15221370	PF00-CAPACITORS Film 0.015μ F ±5% Film 0.0056μ F ±5% Ceramic 330pF ±5% Film 0.0056μ F ±5% Film 0.01μ F ±5% Film 0.01μ F ±5% Ceramic 220pF ±5%

REF.	С	ľΤ	7	PART NO.	DESCRIPTION
DESIG.	U	С	N	PARI NO.	DESCRIPTION
RF01 RF02	2 2	2 2	2 2	RX01040040 RX01040040	PF00-RESISTORS (All Resistors are ±5% and ¼W) Variable, Bass Variable, Mid
RF03 RF04 RF05 RF06 RF07 RF08	2 2 2 2 2 2 2	2 2 2 2 2 2 2	2 2 2 2 2 2 2	RX01040040 GD05183140 GD05183140 GD05273140 GD05273140 GD05562140 GD05562140	Variable, Treble 18ΚΩ 18ΚΩ 27ΚΩ 27ΚΩ 5.6ΚΩ 5.6ΚΩ
RF09 RF11 RF12 RF13	2 2 2	2 2 2	2 2 2	GD05562140 GD05562140 GD05562140	3.9KΩ 5.6KΩ 5.6KΩ PF00-JACK
JF01 JF02	2 2	2	2	YJ06001970 YJ06001980	Jack, (10P) Jack, (6P)
PF01	2 2	2 2	2 2	YN29782220 ZZ29782220	PF01-TONE VR CONNECTOR CIRCUIT BOARD P.W. Board, Tone VR Connector P.W. Board Assembly
JF03	2	2	2	YP06001670	Plug, (16P)
PG00	1	1	1	YN29782230 ZZ29781100	PG00-VOLUME BUFFER CIRCUIT BOARD P.W. Board, Volume Buffer P.W. Board Assembly
CG01 CG02 CG05 CG06	1 1 1	1 1 1 1	1	DF16104300 DF16104300 EA33603590 EA33603590	PG00-CAPACITORS Film 0.1μF ±10% Film 0.1μF ±10% Elect 33μF 35V Elect 33μF 35V
RG01 RG03 RG04 RG05 RG06 RG07 RG08 RG09 RG10 RG11	1 '	1 1 1 1 1 1 1 1 1 1	1	RG05030070 GD05471140 GD05471140 GD05471140 GD05471140 GD05332140 GD05332140 GD05332140 GD05332140 GD05332140	PG00-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) Variable $50 \mathrm{K}\Omega \times 4$ 470Ω 470Ω 470Ω 470Ω 470Ω $3.3 \mathrm{K}\Omega$ $3.3 \mathrm{K}\Omega$ $3.3 \mathrm{K}\Omega$ $100 \mathrm{K}\Omega$
RG12 RG13 RG14 RG15 RG16 RG17 RG18 RG19 RG20 RG21	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	GD05104140 GD05101140 GD05101140 GD05101140 GD05101140 GG05047140 GG05047140 GG05047140 GD05224140	100ΚΩ 100Ω 100Ω 100Ω 100Ω 4,7Ω 4,7Ω 4,7Ω 4,7Ω 220ΚΩ

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REF. DESIG.	⊢	C	-	PART NO.	DESCRIPTION
RG22	1	1	1	GD05224140	220ΚΩ
RG23	1	1	1	GD05224140	220ΚΩ
RG24	1	1	1	GD05224140	220ΚΩ
RG25	1	1	1	GD05331140	330Ω
RG26	1	1	1	GD05331140	3300
RG27	1	1	1	GD05102140 GD05102140	1ΚΩ 1ΚΩ
RG28 RG29		1	1	GD05152140	15Ω
RG30	1	1		GD05150140	15Ω
RG31	1	1	1	GD05150140	15Ω
RG32	1	1	1	GD05150140	15Ω
					PG00-SEMICONDUCTORS
QG01	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QG02	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QG03	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QG04 QG05	1	1	1 1	HT317752D0 HT322401A0	Transistor 2SC1775A (D or E) Transistor 2SC2240 (GR)
QG06		1		HT322401A0	Transistor 25C2240 (GR)
QG07	ľ	i		HT109701A0	Transistor 2SA970 (GR)
QG08	i	1		HT109701A0	Transistor 2SA970 (GR)
QG09	1	1	1	HT406661C0	Transistor 2SD666 (C)
QG10	1	1	1	HT406661C0	Transistor 2SD666 (C)
QG11	1	1	1	HT206461C0	Transistor 2SB646 (C)
QG12	1	1	1	HT206461C0	Transistor 2SB646 (C)
					PG00-MISCELLANEOUS
JG01	1	1	1	YJ06001660	Jack, (7P)
JG02	1	1	1	YJ06001660	Jack, (7P)
SG01	1	1	1	SR04050180	Rotary Switch
PJ00	1	1	1	YF29780030 ZZ29780030	PJ00-SELECTOR SWITCH CIRCUIT BOARD P.W. Board, Selector Switch P.W. Board Assembly
CJ01	1	1	1	EA47503590	Elect Cap. 4.7µF 35V
JJ01 JJ02 JJ03	1 1 1	1 1 1	1 1 1	YJ06001970 YJ06001980 YJ06001680	PJ00-MISCELLANEOUS Jack, (10P) Jack, (6P) Jack, (12P)
SJ01	1	1	1	SP06060100	Push Switch, Input
SJ02	1	i i	1	SR04050170	Rotary Switch, Record, 1
SJ03	1	1	1	SR04050170	Rotary Switch, Record, 2
					· .
					PK00-TAPE EQ
					CIRCUIT BOARD
PK00	1	1	1.	YF29780040	P.W. Board, Tape EQ
	1	1	1	ZZ29780040 ³	P.W. Board Assembly
					PK00-CAPACITORS
CK01	1	1	1	DF16104300	Film 0.1µF ±10%
CK02	1	1	1	DF16104300	Film 0.1μF ±10%
CK03	1	1	1	EA10603590	Elect 10μF 35V
CK04	1	1	1	EA10603590 EA10605090	Elect 10μ F 35V Elect 10μ F 50V
CK05 CK06	1	1	1	EA10605090	Elect 10μF 50V
CK08	'n	1	1	EA10703590	Elect 100µF 35V
CK09	1	1	1	EA10703590	Elect 100µF 35V
CK11	1	1	1	DF16222300	Film 0.0022µF ±10%
CK12	1	1	1	DF16222300	Film 0.0022µF ±10%
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REF.	O	T	7	DARTNO	DESCRIPTION
DESIG.	U	С	N	PART NO.	DESCRIPTION
					PK00-RESISTORS
					(All Resistors are ±5% and ¼W)
RK01	1	1	1	GD05331140	330Ω
RK02	1	1	1	GD05331140	330Ω
RK03	1	1	1	GD05471140	470Ω
RK04	1	1	1	GD05471140	470Ω
RK05	1	1	1	GD05471140	470Ω
RK06	1	1	1	GD05471140	470Ω
RK07	1	1	1	GD05332140	3.3KΩ
RK08	1	1	1	GD05332140	3,3ΚΩ
RK09	1	1	1	GD05332140	3.3KΩ
RK10	1	1	1	GD05332140	3.3ΚΩ
RK11	1	1	1	GD05104140	100ΚΩ
RK12	li	i	1	GD05104140	100ΚΩ
RK12	;	1	1	GD05101140	100Ω
RK14	1	1	í	GD05101140	100Ω
RK15	li	i	1	GD05101140	100Ω
RK16	1	i	1	GD05101140	100Ω
RK17	1	1	1	GD05047140	4.7Ω
RK18	1	1	1	GD05047140	4.7Ω
RK19	i	1	1	GD05047140	4.7Ω
RK20	1	1	1	GD05047140	4.7Ω
RK21	1	1	1	GD05047140	4.7Ω
RK22	1	1	1	GD05047140	4.7Ω
RK23	1	1	1	GD05104140	100ΚΩ
RK24	1	1	1	GD05104140	100ΚΩ
RK25	1	1	1	GF05151120	150Ω ½W
RK26	1	1	1	GF05151120	150Ω ½W 220KΩ
RK27	1	1	1	GD05224140	220KΩ
RK28	1	1	1	GD05224140	15Ω
RK29	1	1	1	GD05150140 GD05150140	15Ω 15Ω
RK30	1	1	1	GD05150140	15Ω
RK31 RK32	1		1	GD05150140	15Ω
	'				
					PK00-SEMICONDUCTORS
QK01	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QK02	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
OK03	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QK04	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QK05	1	1	1	HT322401A0	Transistor 2SC2240 (GR)
QK06	1	1	1	HT322401A0	Transistor 2SC2240 (GR)
QK07	1	1	1	HT109701A0	Transistor 2SA970 (GR)
QK08	1	1	1	HT109701A0	Transistor 2SA970 (GR)
QK09	1	1	1	HT406661C0	Transistor 2SD666 (C)
QK10	1	1	1	HT406661C0	Transistor 2SD666 (C)
QK11	1	1	1	HT206461C0	Transistor 2SB646 (C)
QK12	1	1	1	HT206461C0	Transistor 2SB646 (C)
					PK00-MISCELLANEOUS
JK01	1	1	1	YP06001580	Plug. (12P)
JK02	1	1	1	YJ06001680	Jack, (12P)
51.02	1.	[Ι΄	. 555551005	
SK01	1	1	1	SC00030010	Switch
SK02	1	1	1	SB11000010	Switch Band, Flx
SK03	1	1	1	SS10040010	Slide Switch
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REF.	-	ή,	-	PART NO.	DESCRIPTION
DESIG.	υ	С	N		
PL00	1	1	1	YH29781210 ZZ29781210	PL00-CARTRIDGE LOAD CIRCUIT BOARD P.W. Board, Cartridge Load P.W. Board Assembly
CL01	1	1	1	DD15390300	PL00-CAPACITORS Ceramic 39pF ±5%
CL02	1	1	1	DD15390300	Ceramic 39pF ±5%
CL03	1	1	1	DF55101090 DF55101090	Film 100pF ±5% Film 100pF ±5%
CL04 CL05	1 1	1	1	DF55101090 DF55221090	Film 220pF ±5%
CL06	i	1	i	DF55221090	Film 220pF ±5%
CL07	1	1	1	DF55361090	Film 360pF ±5%
CL08	1	1	1	DF55361090	Film 360pF ±5%
CL09	1	1	1	DD15390300	Ceramic 39pF ±5% Ceramic 39pF ±5%
CL10	1	1	1	DD15390300	Ceramic 39pF ±5%
CL11	1	1	1	DF55101090	Film 100pF ±5%
CL12	1	1	1	DF55101090	Film 100pF ±5%
CL13	1.	1	1	DF55221090	Film 220pF ±5%
CL14	1	1	1	DF55221090 DF55361090	Film 220pF ±5% Film 360pF ±5%
CL15 CL16	1	1	1	DF55361090	Film 360pF ±5%
CL17	1	1	1	DD15100010	Ceramic 10pF ±5%
CL18	1	1	1	DD15100010	Ceramic 10pF ±5%
					DI OO DEGLETODE
			l		PL00-RESISTORS (All Resistors are ±5% and ¼W)
RL01	1	1	1	GD05112140	1.1ΚΩ
RL02	1	1	1	GD05112140	1.1ΚΩ
RL03	1	1	1	GD05123140	12ΚΩ
RL04	1	1	1	GD05123140	12ΚΩ 39ΚΩ
RL05 RL06	1	1	1 1	GD05393140 GD05393140	39ΚΩ
RL07	1	i	l i	GD05104140	100ΚΩ
RL08	1	1	1	GD05104140	100ΚΩ
RL09	1	1	1	GD05112140	1.1ΚΩ
RL10	1	1	1	GD05112140	1.1ΚΩ
RL11	1	1	1	GD05123140	12ΚΩ
RL12	1	1	1	GD05123140	12ΚΩ
RL13	1	1	1	GD05393140	39ΚΩ
RL14 RL15	1	1	1	GD05393140 GD05104140	39ΚΩ 100ΚΩ
RL16	1	1	1	GD05104140	100ΚΩ
	1.	١.	١.		PL00-SWITCH
SL01	1	1	1	SR04050190 SR04050190	Rotary Switch Rotary Switch
SL02	'	'	'	3H04050190	Hotaly Switch
					1
	1				
				1	
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REF. DESIG.	Q V	C	Y	PART NO.	DESCRIPTION
PM01	1	1	1 1	YK29780210 ZZ29780210	PM01-MC AMP. CIRCUIT BOARD P.W. Board, MC Amp. P.W. Board Assembly
CM01 CM02 CM03 CM04 CM05 CM06 CM07 CM08 CM09 CM10	1 1 1 1 1 1 1	11111111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DD15101300 DD15101300 DF15152350 DF15152350 EA47700690 EA47700690 EA47503590 DD15560300 DD15560300	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
CM11 CM12 CM13 CM14 CM15 CM16 CM17 CM18 CM19 CM20 CM21 CM22	1 1 1 1 1 1 1 1 1 1	1111111111	1 1 1 1 1 1 1 1 1 1 1 1	EA47700690 EA47700690 DF15102300 DF15102300 EQ10603510 EQ10603510 DF17474510 DF17474510 EA47601690 EA47601690 EA22701690 EA22701690	Elect 470μF 6.3V Elect 470μF 6.3V Film 0.001μF \pm 5% Film 0.001μF \pm 5% Elect 10μF 35V Elect 10μF \pm 20% Film 0.47μF \pm 20% Elect 47μF 16V Elect 47μF 16V Elect 220μF 16V Elect 220μF 16V
RM01 RM02 RM03 RM04 RM05 RM06 RM07 RM08 RM09 RM10	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	GD05033140 GD05033140 GD05470140 GD05470140 GM21422110 GM21422110 GD05163140 GD05163140 GD05163140 GD05220140 GD05220140	PM01-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 3.3 Ω 3.3 Ω 47 Ω 47 Ω 2.21K Ω $\pm 2\%$ 2.21K Ω $\pm 2\%$ 16K Ω 16K Ω 22 Ω 22 Ω
RM11 RM12 RM13 RM14 RM15 RM16 RM17 RM18 RM19 RM20	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	GD05152140 GD05152140 GD05121140 GD05121140 GD05153140 GD05153140 GD05152140 GD05152140 GG05220140 GG05220140	1.5ΚΩ 1.5ΚΩ 120Ω 120Ω 15ΚΩ 15ΚΩ 1.5ΚΩ 22Ω 22Ω

		2 ′ T	<u> </u>		(N): for Europe
REF. DESIG.	U	_	•	PART NO.	DESCRIPTION
	Ť	Ť	Γ		
RM21	1	1	1	GG05220140	22Ω
RM22	1	i	1	GG05220140	22Ω
RM23	1	1	1	GD05471140	470Ω
RM24	1	1	1	GD05471140	470Ω
RM25	1	1	1	GD05103140	10ΚΩ
RM26	1	1	1	GD05103140	10ΚΩ
RM27 RM28	1	1	1	GD05470140 GD05470140	47Ω 47Ω
RM29	1	1	1	GD05470140	47Ω
RM30	1	1	1	GD05470140	47Ω
RM31	1	1	1	GD05223140	22ΚΩ
RM32	1	1	1	GD05223140	22ΚΩ
RM33	1	1	1	GD05273140	27ΚΩ
RM34	1	1	1	GD05273140	27ΚΩ
					PM01-SEMICONDUCTORS
QM01	1	1	1	HF201472A0	F.E.T. 2SK147 (GR-BL)
QM02	1	1	1	HF201472A0	F.E.T. 2SK147 (GR-BL)
QM03	1	1	1	HT109701A0	Transistor 2SA970 (GR)
QM04	1	1	1	HT109701A0 HT406661C0	Transistor 2SA970 (GR) Transistor 2SD666 (C)
QM05 QM06	1	1	1	HT406661C0	Transistor 2SD666 (C) Transistor 2SD666 (C)
QM07	1	1		HT206461C0	Transistor 2SB646 (C)
QM08	1	1	1	HT206461C0	Transistor 2SB646 (C)
QM09	1	1	1	HV00006120	Varistor MV203 (Y)
QM10	1	1	1	HV00006120	Varistor MV203 (Y)
QM11	1	1	1	HT403132P0	Transistor 2SD313 (D or E)
QM12	1	1	1	HT205072P0	Transistor 2SB507 (D or E)
	1	ĺ			PM01-SWITCH
SM01	1	1	1	SP04010300	Push Switch
				·	·]
					PN00-PEAK IND.
					CIRCUIT BOARD
PN00	1	1	1	YG29560022	P.W. Board, Peak Ind.
	1	1	1	ZZ29902020	P.W. Board Assembly
					PN00-CAPACITORS
CN01	1	1	1	EA33505090	Elect 3.3µF 50V
CN02	1	1	1	EA33505090	Elect 3.3µF 50V
CN04	1	1	1	EA10706390	Elect 100µF 63V
CN05	1	1	1	EA22701690	Elect 220μF 16V
CN06 CN07	1 1	1	1	EA47601690 EA47601690	Elect 47μF 16V Elect 47μF 16V
CINO				LA47001030	Elect 47μF 16V
					PN00-RESISTORS
D	_			5.70	(All Resistors are ±5% and ¼W)
RN15	1	1	1	RT05103140	10ΚΩ
RN16 RN17	1	1	1 1	RT05103140 RT05393140	10KΩ 39KΩ
RN18	1	1	1	RT05393140	39ΚΩ
RN19	1	1	1	RT05183140	18ΚΩ
RN20	1	1	1	RT05183140	18ΚΩ
RN21	1	1	1	RT05302140	3ΚΩ
RN22	1	1	1	RT05302140	3KΩ
RN23 RN24	1	1	1	RT05753140 RT05753140	75KΩ 75KΩ
					1 3132
RN25	1	1	1	RT05753140	75ΚΩ
RN26	1	1	1	RT05753140	75ΚΩ
RN27 RN28	1	1	1	RT05473140 RT05473140	47KΩ 47KΩ
RN29	1	1	1	RT05473140	47ΚΩ
					·
		1			1

REF.	QTY		1			
DESIG.	U	С	N	PART NO.	DESCRIPTION	
	Ť	Ť				
RN30	1	1	1	RT05473140	47ΚΩ	
RN31	1	1	1	RT05183140	18ΚΩ	
RN32	1	1	1	RT05183140	18ΚΩ	
RN33	1	1	1	RT05333140	33KΩ	
RN34	1	1	1	RT05333140	33KΩ	
RN35	1	1	1	RT05223140	22ΚΩ	
RN36	1	1	1	RT05223140	22ΚΩ	
RN37	1	1	1	RT05104140	100KΩ	
RN38	1	1	1	RT05104140	100ΚΩ	
RN39	1	1	1	RT05823140	82KΩ	·
1				*		
RN40	1	1	1	RT05823140	82KΩ	
RN41	1	1	1	RT05512140	5.1ΚΩ	
RN42	1	1	1	RT05512140	5.1ΚΩ	
RN43	1	1	1	RT05273140	27ΚΩ	
RN44	1	1	1	RT05273140	27ΚΩ	
	1					
RN45	1	1	1	RT05363140	36ΚΩ	
RN46	1	1	1	GA05391010	390Ω	1W
RN47	1	i	i	RT05274140	270ΚΩ	,
RN48	1	1	1	GD05393140	39ΚΩ	
RN49	1	1	1	RT05273140	27ΚΩ	
RN50	i	i	1	RT05682140	6.8ΚΩ	
RN51	Ιi	1	1	RT05224140	220ΚΩ	
RN52	1	1	1	RT05562140	5.6ΚΩ	
RN53	1	1	1	RT05562140	5.6ΚΩ	
RN54	1	1	i	GA05332010	3.3ΚΩ	1W
RN55	1	Ιi	i	RT05511140	510Ω	•••
RN56	1	;	i	RT05511140	510Ω	
1 111130	1'	l		11103311140	0,022	
1					PN00-SEMIC	ONDUCTORS
QN03	1	1	1	HT309452A0	Transistor	2SC945 (Q or R)
QN04	i	1	'n	HT309452A0	Transistor	2SC945 (Q or R)
QN05	li	1	1	HT309452A0	Transistor	2SC945 (Q or R)
1	li	1	1	HT309452A0	Transistor	2SC945 (Q or R)
QN06	1	1	1	HT309452A0	Transistor	2SC945 (Q or R)
QN09		1	1	!	1	2SC1318 (R or S)
QN10	1	1 -		HT313182B0	Transistor Transistor	2SC1318 (R or S)
QN11	1	1	1	HT313182B0		WZ-071
QN13	1	1	1	HD30023090	Zener	WZ-071 DS131B
QN14	1	1	1	HD20011030	Diode	2SA872A (D or E)
QN15	1	1	1	HT108722D0	Transistor	25A672A (D 01 E)
0.116	1.		١,	UT10072200	Transistor	2SA872A (D or E)
QN16	1	1	1	HT108722D0		2SA872A (D or E)
QN17	1	1	1	HT108722D0 HT108722D0	Transistor	2SA872A (D or E)
QN18	1	1	1		Transistor Transistor	2SC1775A (E or F)
QN19	1	1	1	HT317752E0		2SC1775A (E or F)
QN20	1	1	1	HT317752E0	Transistor	
QN23	1	1	1	HD20001210	Diode	182473
QN24	1	1	1	HD20001210	Diode	182473
QN25	1	1	1	HD20001210	Diode	182473
QN26	1	1	1	HD20001210	Diode	1S2473
QN27	1	1	1	HD20011010	Diode	W06C
QN28	1	1	1	HD20011010	Diode	W06C
QN29	1	1	1	HD20005010	Diode	W06B
QN30	1	1	1	HD20005010	Diode	W06B
1					PN00-MISCE	
JN01	1	1	1	YP06001070	Plug, (9P)	
JN02	1	1	1	YP06001070	Plug, (9P)	
JN03	1	1	1	YP06001040	Plug, (3P)	
JN04	1	1	1	YP06001060	Plug, (7P)	
					1	
LN01	1	1	1	LY20240110	Relay	
1						
1						
1						
L .					l	

PEE QTY					
REF. DESIG.	U	С	N	PART NO.	DESCRIPTION
·					PV00-RCA PIN CIRCUIT BOARD
PV00	1	1	1	YF29780020 ZZ29901020 ZZ29908020	P.W. Board, RCA Pin P.W. Board Assembly P.W. Board Assembly
CV01	1	1	1	DK18473320	Ceramic 0.047µF +100% -0
RV01 RV02 RV03 RV04 RV05 RV06 RV07 RV08			111111	GD05394140 GD05394140 GD05104140 GD05104140 GD05394140 GD05394140 GD05104140 GD05104140	PV00-RESISTORS (All Resistors are $\pm 5\%$ and $\%$ W) 390ΚΩ 390ΚΩ 100ΚΩ 100ΚΩ 390ΚΩ 100ΚΩ 390ΚΩ 100ΚΩ 100ΚΩ
JV01 JV02 JV03 JV04 JV04 JV05 JV06 JV06	1 1 1 1	1 1 1 1 1 1	1 1 1 1	YT02040270 YT02040150 BY01050060 YT02040150 BY01050060 YT02040150 YT02020150 YT02040150 YT02040150 YT02040210	PV00-JACK Terminal, Phono 1, 2 Terminal, Tape Monitor 1 Jack, Tape Monitor 1 Jack, Tape Monitor 2 Terminal, Tape Monitor 2 Terminal, Scope Out Terminal, Pre Out Terminal, Pre Out
PW00	1 1	1 1	1 1	YD29700032 ZZ29780010	PW00-SPEAKER SWITCH CIRCUIT BOARD P.W. Board, Speaker Switch P.W. Board Assembly
RW01 RW02 RW03 RW04	1 1 1 1	1 1 1 1	1 1 1 1	GA05331020 GA05331020 GA05151010 GA05151010	PW00-RESISTORS 330Ω 2W 330Ω 2W 150Ω 1W 150Ω 1W
JW01	1	1	1	YJ01000860	PW00-MISCELLANEOUS Jack, Headphone
SW01	1	1	1	SP02020240	Push Switch

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

9. TECHNICAL SPECIFICATIONS

FOR U.S.A. MODEL ONLY

AMPLIFIER SECTION

RATED POWER OUTPUT, MINIMUM CONTINUOLS AVERAGE POWER PER CHANNELS, BOTH CHANNELS DRIVEN POWER BAND TOTAL HARMONIC DISTORTION LOAD IMPEDANCE 150 WATTS 20 Hz to 20 HHz 0.03%
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER PER CHANNELS, BOTH CHANNELS DRIVEN
TOTAL HARMONIC DISTORTION
LOAD IMPEDANCE 4 OHMS
I.M. Distortion (IHF method, 60 Hz and 7 kHz mixed 4 : 1 at rated power output) at 8 ohm load impedance
at 4 ohm load impedance
Damping Factor (at 20 Hz)
Sensitivity (at MAIN IN)
Impedance (at MAIN IN)
Frequency Response for Power Amp Only (at 1 watt output ±1 dB)
S/N Ratio (MAIN IN, "A" Weighted) 110 dB
PREAMPLIFIER SECTION
Phono Section Phono Section
Input Overload at 1 kHz (MM)
THD (150 mV Input at 1 kHz)
Equivalent Input Noise ("A" Weighted)
Equivalent Input Noise ("A" Weighted) Phono (MM)
Phono (MC)
Dynamic Range ("A" Weighted)
Phono (MM)
Input Sensitivity (ref. to rated output)
Phono (MM)
Phono (MC)
Input Impedance
Phono (MM)
Phono (MC) 50 ohms
Input Capacitance (MM)
Frequency Response, RIAA 20 Hz to 20 kHz ±0.2 dB
Signal to Noise Raito (ref. to rated output and 7.75 mV input "PHONO MM"
or 0.775 mV input "PHONO MC" at 1 kHz, "A" weighted)
Phono (MM)
Phono (MC)
High Level Inputs (Aux Tape, and Tuner)
Input Sensitivity (ref. rated output) 150 mV
Input Impedance
Frequency Response
20 Hz ~ 20 kHz
5 Hz ~ 100 kHz
Signal-to-Noise Ratio (ref. to Rated Output and 7.75 mV input "A" weighted)
Output Levels
Pre Out (ref. to 150 mV at Aux Inputs)
(ref. to 500 mV at Aux Inputs)
Output Impedance
Tape Out (Phono Mode)
Pre Out

GENERAL

Power Requirements Power Consumption at rated output, both channels operating (8 ohm road)	580 W
Idling power (volume control at zero)	90 W
Dimensions	
Panel Width 1	16-3/8" (416 mm)
Panel Height	5-3/4" (146 mm)
Depth 17	7-3/16" (436 mm)
Weight	-, . · · · · · · · · · · · · · · · · · ·
Unit alone	53.9 lbs (24.5 kg)
Packed for shipment	58.3 lbs (26.5 kg)

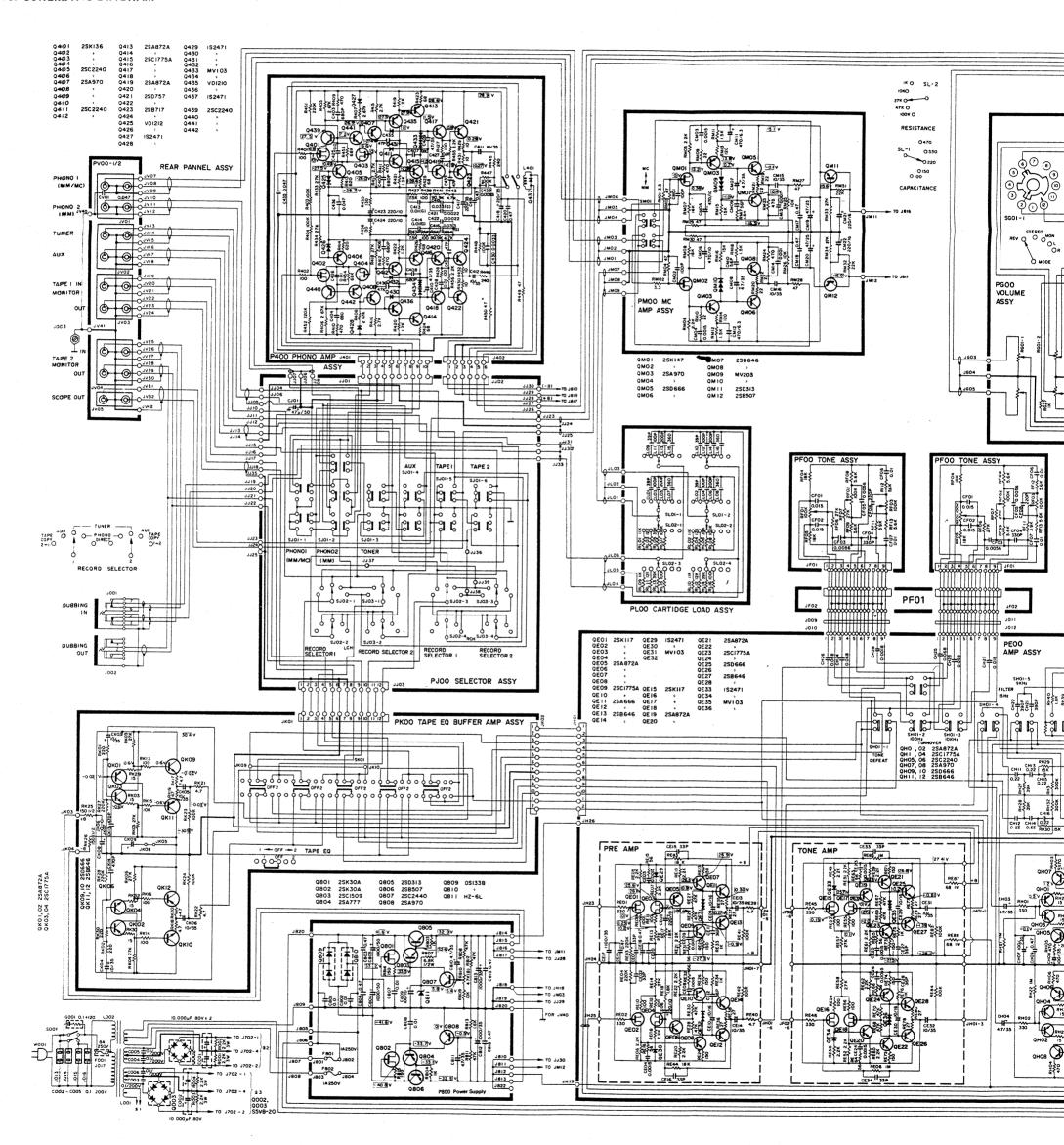
FOR EUROPEAN MODEL ONLY

AUDIO SECTION

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL
POWER OUTPUT, FTC AMERICAN STANDARDS, 4 OHM, PER CHANNEL
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)
POWER BANDWIDTH
POWER OUTPUT, DIN, 8 OHM, PER CHANNEL 190 W
POWER OUTPUT, FTC AMERICAN STANDARDS, 8 OHM, PER CHANNEL
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT
I.M. DISTORTION AT RATED POWER OUTPUT
(250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)
POWER BANDWIDTH
DAMPING FACTOR 8 OHM
Frequency Response
Phono (RIAA) ±0.2 dB
Aux (±1 dB)
Main In (±1 dB)
Signal-to-Noise Ratio (IHF-A Network)
Phono (MC)
(MM)
Aux
Main In
Input Terminals
Phono: Input Impedance (MC)
(MM)
Input Capacitance (MM)
(MM)
(MM) 220 pF
(MM) 330 pF
(MM)
Input Sensitivity (MC)
(MM)

Overload Margin	42 dB
Aux: Input Impedance	40 k ohms
Input Sensitivity	. 150 mV
Phono Equivalent Input Noise (IHF-A Network)	
(MC)	. 0.07 μV
(MM)	
Phono Dynamic Range (Ratio of input overload to equivalent input noise)	
Channel Balance (0 to -40 dB/40 Hz-16 kHz)	
Phono	1.0 dB
Aux	0.5 dB
Main In	0.5 dB
Interchannel Crosstalk	
Phono 1 kHz	46 dB
Aux 1 kHz	
Tape 1 kHz	
Main In 1 kHz	
Intersource Crosstalk (Worst Point)	
1 kHz	52 dB
Output Voltage, 1 kHz	
Tape Out: Phono (MM) 7.75 mV Input	. 590 mV
Pre Out: Aux 775 mV Input	
Output Impedance, 1 kHz	
Tape Out	110 ohms
Pre Out	100 ohms
GENERAL	
Power Requirements 220 V	AC, 50 Hz
(E and N versions are featuring an external voltage selector for use on 110/	120/240 V.
Other versions can be converted by a qualified technician to operate on 110/1	
Power Consumption at Rated Output, Both Channels Operating	575 W
Idling Power	90 W
Semiconductor Complement	
Transistors	150
Diodes	73
Field Effect Transistors	18
Dimensions	
Panel Width	' (416 mm)
Panel Height	
Depth	′ (436 mm)
Weight	·
Unit alone	os (24.5 kg)
Packed for shipment	

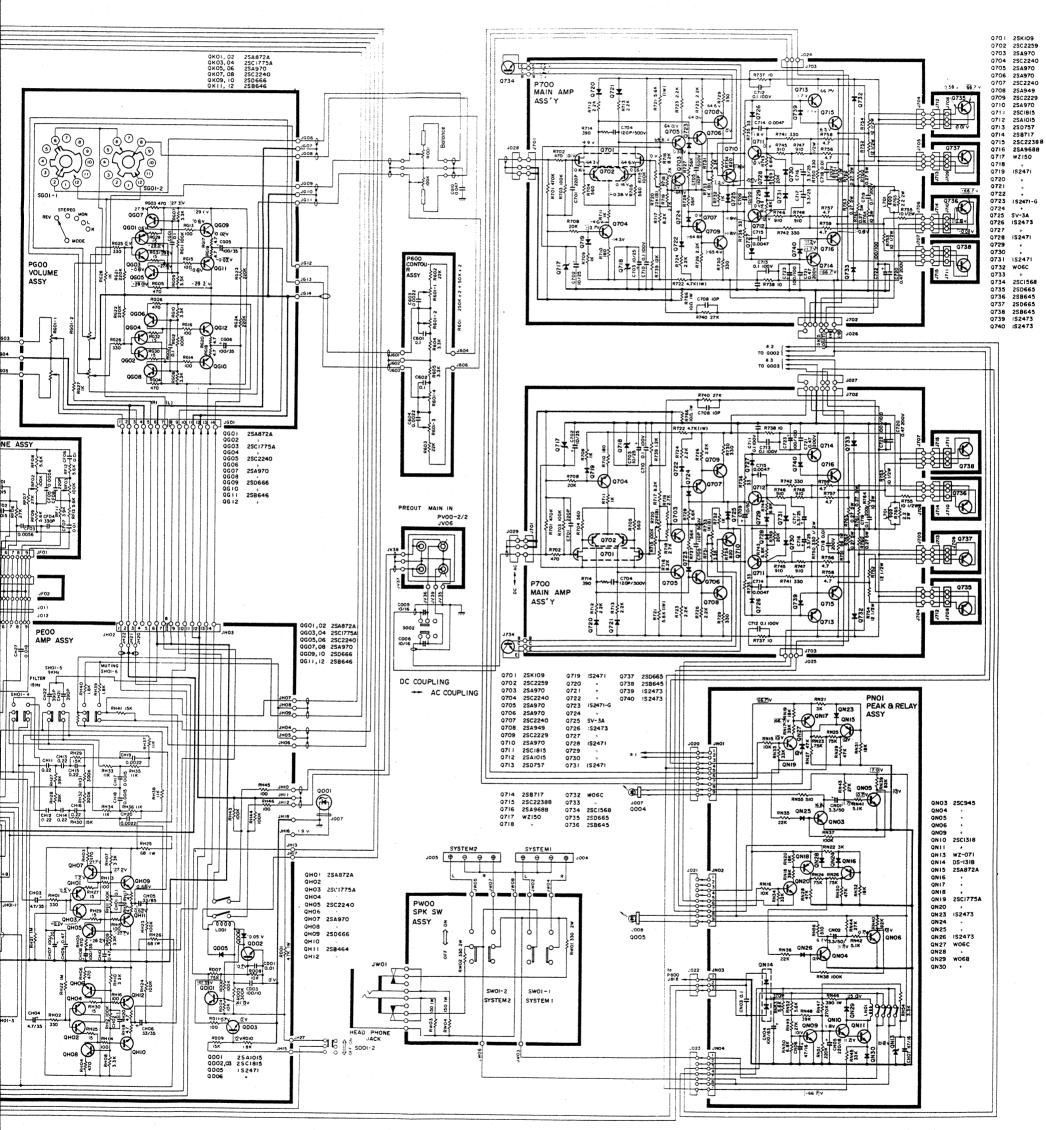
10. SCHEMATIC DIAGRAM



NOTE: This schematic diagram applies

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MODEL 1300DC



ic diagram applies to units manufactured for the U.S.A. and European market